

# Maricopa County Health Status Report 2009



## Reference Tables



Prepared by the Maricopa County Department of Public Health  
Office of Epidemiology  
June 2011  
**Maricopa County**

## Acknowledgements

This report was prepared by the Maricopa County Department of Public Health, Office of Epidemiology.

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The authors wish to thank the following individuals and organizations for contributing numeric data, consultation, and other information used in this report.  
Their assistance is much appreciated.

Sarah Santana, Tammy Sylvester, Vjollca Berisha – Office of Epidemiology and Data Services  
Tom Mickey, Jay Jones – Maricopa County Department of Public Health, Division of Clinical Services  
Kristina Schaller, Julia Skinner, Christopher Mrela, Laura Erhart – Arizona Department of Health Services

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## Introduction

This report provides health status information for the year 2009 for residents of Maricopa County, Arizona. It includes data for mortality (death), communicable diseases, and natality (birth), as well as information on the size and demographic distribution of the population.

For each disease or health indicator, the following information is provided:

- Number of cases in the county
  - Mortality Disease Example: 5,420 residents of Maricopa County died due to cancer in 2009.\*
  - Communicable Disease Example: 65 residents of Maricopa County were diagnosed with a confirmed case of Pertussis in 2009.
  - Natality (Birth) Example: There were 690 infants born with a very low birthweight (less than 1500 grams) in 2009.
- Rate or percentage of cases in the county
  - Mortality Disease Example: For every 100,000 residents of Maricopa County, 134.7 died due to cancer in 2009.\*
  - Communicable Disease Example: For every 100,000 residents of Maricopa County, 1.6 were diagnosed with Pertussis in 2009.
  - Natality (Birth) Example: Among all live births in 2009, 1.2% were born with a very low birthweight.

All data in this report are for calendar years 2005 through 2009.

Information on data sources and methodology are in Section III – Technical Notes.

\*Except where noted, the cause of death is the underlying cause of death, which is the condition that began the sequence of death. See Technical Notes for more information on the underlying cause of death.



## ***I. Maricopa County 2009 Population Statistics***

## Maricopa County 2009 Population Statistics

### Table 1.01 Population By Race/Ethnicity, Age, and Sex, 2009

#### Age by Sex

Age	Males		Females		Total	
	No.	%	No.	%	No.	%
0-4	169,660	8.4%	163,233	8.2%	332,893	8.3%
5-9	160,941	7.9%	154,155	7.7%	315,096	7.8%
10-14	144,530	7.1%	137,454	6.9%	281,984	7.0%
15-19	139,063	6.8%	128,281	6.4%	267,344	6.6%
20-24	138,586	6.8%	125,074	6.3%	263,660	6.6%
25-34	336,983	16.6%	300,143	15.1%	637,126	15.8%
35-44	297,414	14.6%	274,211	13.8%	571,625	14.2%
45-54	259,853	12.8%	258,413	13.0%	518,266	12.9%
55-64	184,815	9.1%	201,035	10.1%	385,850	9.6%
65-74	108,131	5.3%	123,172	6.2%	231,303	5.7%
75-84	66,767	3.3%	85,406	4.3%	152,173	3.8%
85+	23,807	1.2%	42,005	2.1%	65,812	1.6%
Total	2,030,550		1,992,582		4,023,132	

#### Race/Ethnicity by Sex

Race/Ethnicity	Males		Females	
	No.	%	No.	%
White	1,140,454	56.2%	1,173,035	58.9%
Hispanic	678,597	33.4%	602,049	30.2%
African American	91,091	4.5%	88,243	4.4%
American Indian	31,615	1.6%	34,066	1.7%
Asian	59,992	3.0%	65,885	3.3%
Other/2+ Races	28,801	1.4%	29,304	1.5%
Total	2,030,550		1,992,582	

#### Age by Race/Ethnicity

Age	White		Hispanic		African American		American Indian		Asian		Other/2+ Races		Total
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
0-4	128,790	5.6%	161,497	12.6%	16,381	9.1%	6,536	10.0%	10,146	8.1%	9,543	16.4%	332,893
5-9	130,595	5.6%	143,908	11.2%	16,640	9.3%	5,892	9.0%	9,617	7.6%	8,444	14.5%	315,096
10-14	128,159	5.5%	118,634	9.3%	14,967	8.3%	4,975	7.6%	8,121	6.5%	7,128	12.3%	281,984
15-19	127,100	5.5%	107,821	8.4%	14,820	8.3%	5,412	8.2%	6,662	5.3%	5,529	9.5%	267,344
20-24	128,693	5.6%	103,771	8.1%	14,227	7.9%	5,768	8.8%	6,760	5.4%	4,441	7.6%	263,660
25-34	315,760	13.6%	246,235	19.2%	29,509	16.5%	13,710	20.9%	23,398	18.6%	8,514	14.7%	637,126
35-44	320,654	13.9%	185,588	14.5%	26,049	14.5%	9,723	14.8%	24,257	19.3%	5,354	9.2%	571,625
45-54	355,177	15.4%	113,025	8.8%	22,451	12.5%	6,949	10.6%	16,466	13.1%	4,198	7.2%	518,266
55-64	297,526	12.9%	57,753	4.5%	13,338	7.4%	3,831	5.8%	10,796	8.6%	2,606	4.5%	385,850
65-74	189,453	8.2%	26,148	2.0%	6,575	3.7%	1,828	2.8%	5,895	4.7%	1,404	2.4%	231,303
75-84	132,263	5.7%	12,136	0.9%	3,407	1.9%	816	1.2%	2,848	2.3%	703	1.2%	152,173
85+	59,319	2.6%	4,130	0.3%	970	0.5%	241	0.4%	911	0.7%	241	0.4%	65,812
Total	2,313,489		1,280,646		179,334		65,681		125,877		58,105		4,023,132

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2009.



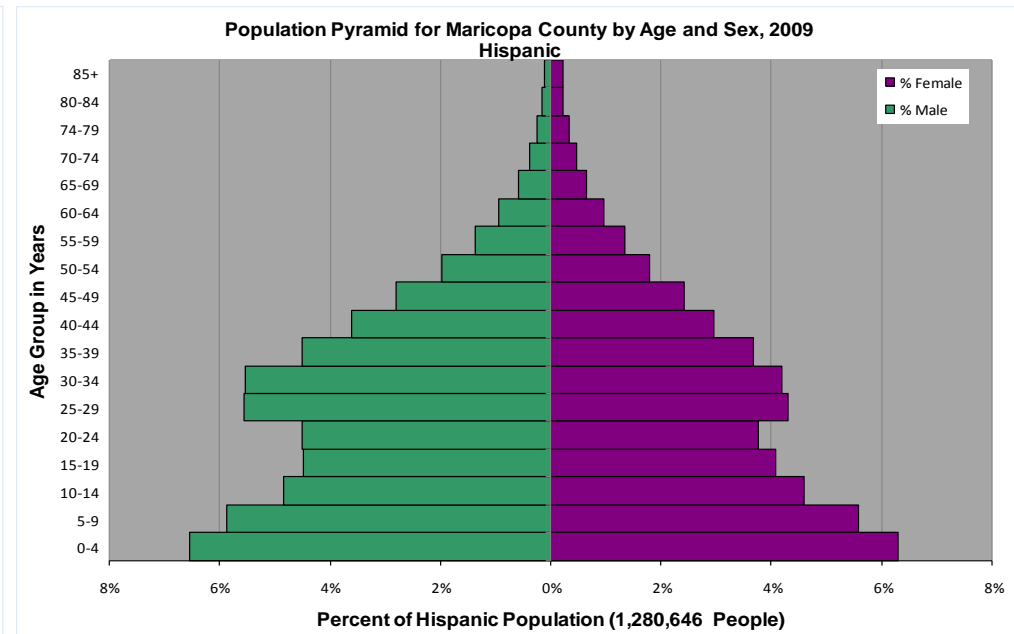
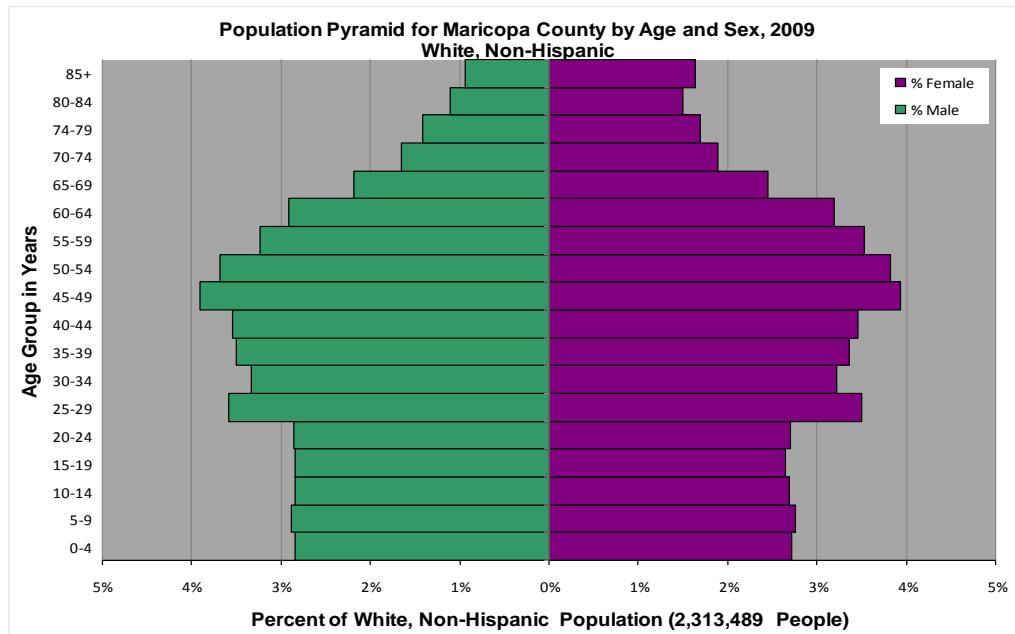
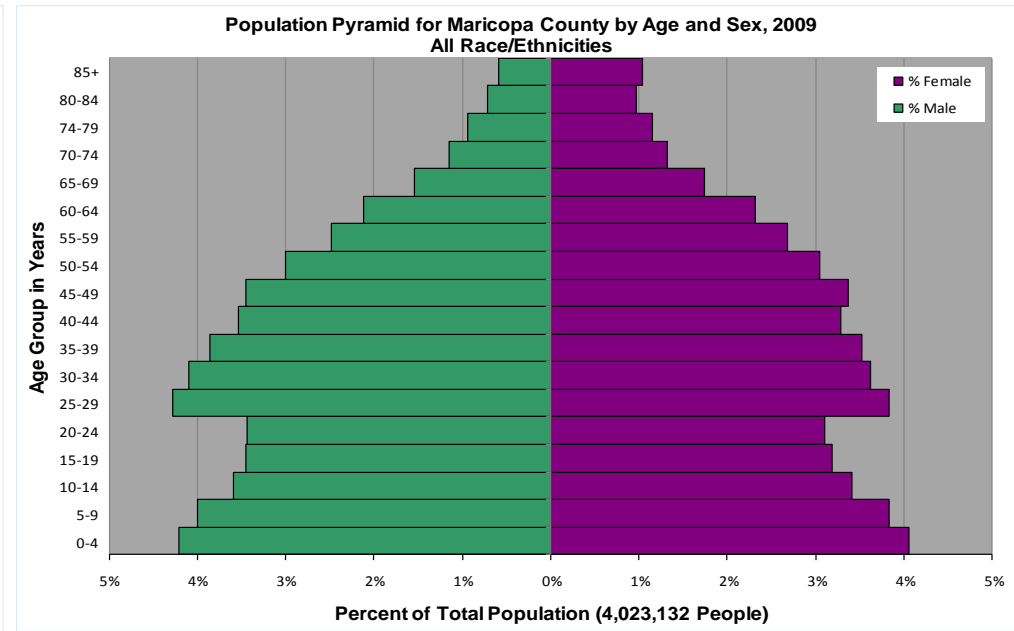
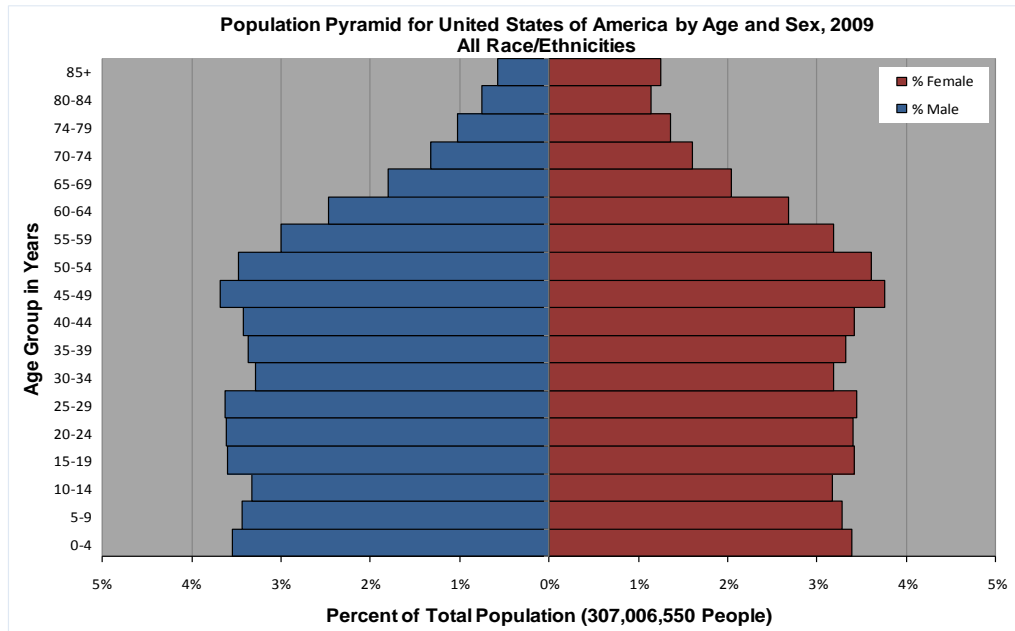
## Maricopa County 2009 Population Statistics

**Table 1.02 Population Estimates by Sex, Age, and Race/Ethnicity, 2009**

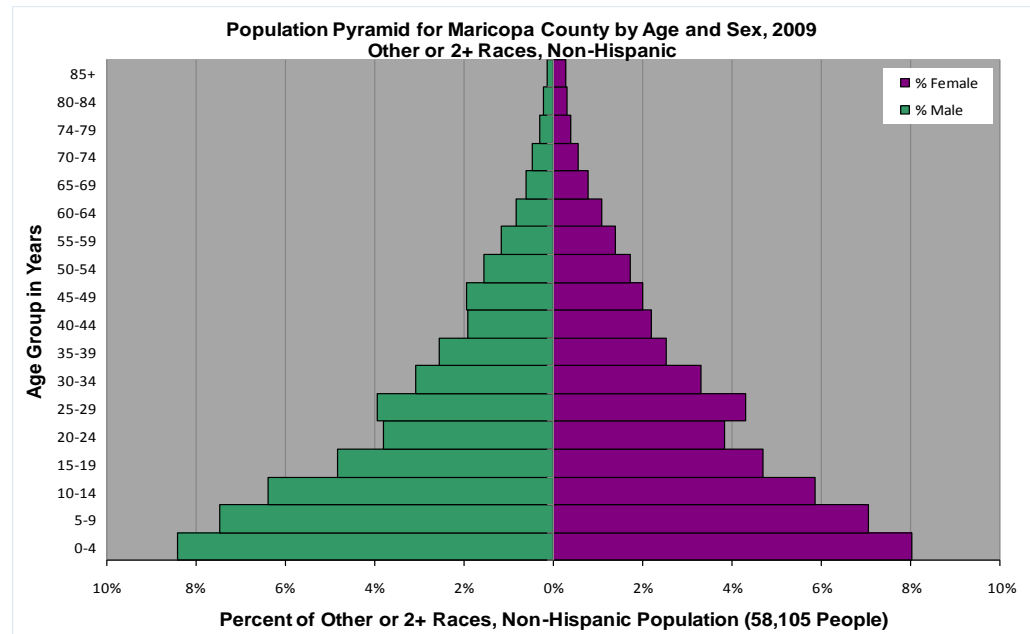
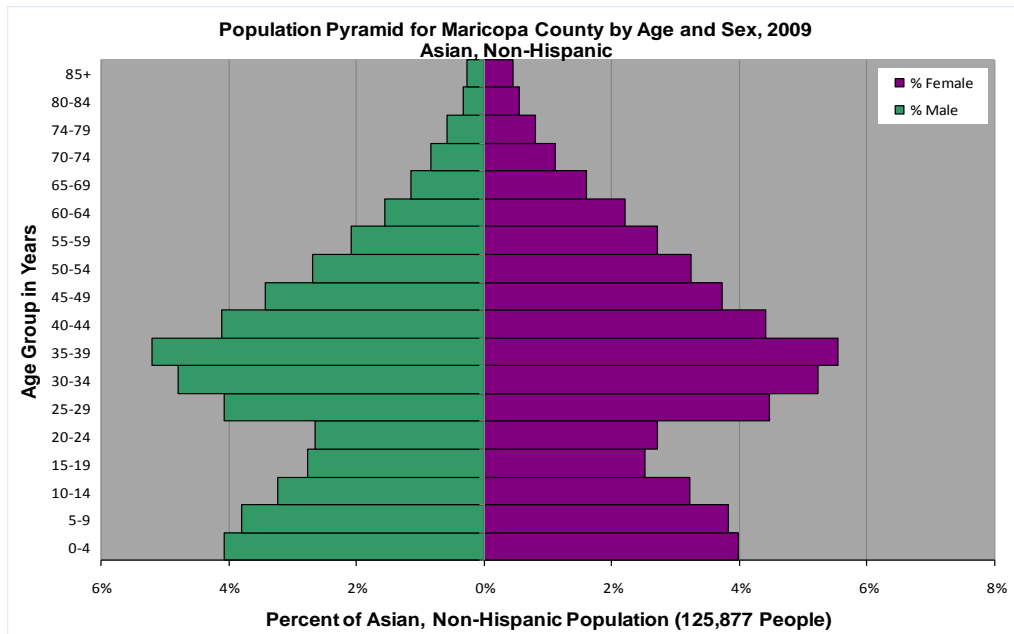
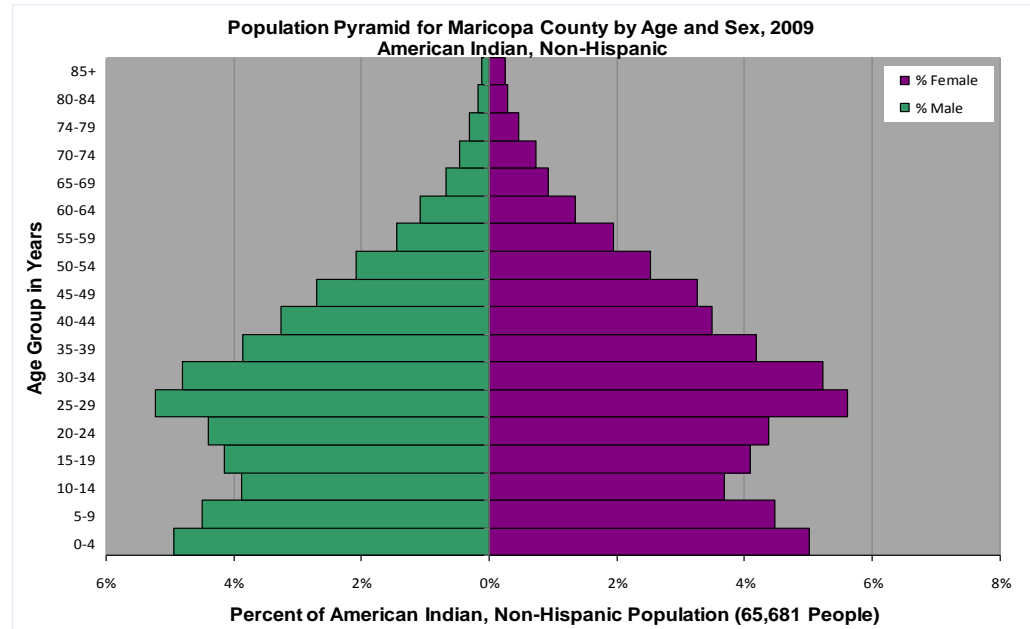
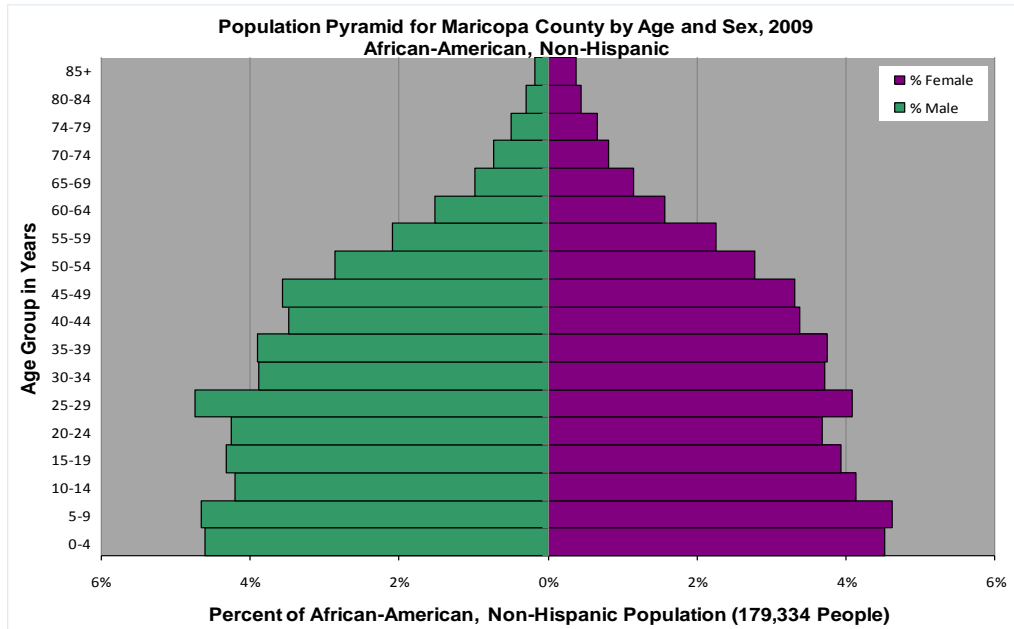
Females Age	White		Hispanic		African American		American Indian		Asian		Other/2+ Races		Total
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
0-4	62,912	5.4%	79,254	13.2%	8,101	9.2%	3,295	9.7%	5,006	7.6%	4,665	15.9%	163,233
5-9	63,821	5.4%	70,182	11.7%	8,282	9.4%	2,938	8.6%	4,830	7.3%	4,102	14.0%	154,155
10-14	62,286	5.3%	57,858	9.6%	7,417	8.4%	2,423	7.1%	4,053	6.2%	3,417	11.7%	137,454
15-19	61,238	5.2%	51,387	8.5%	7,059	8.0%	2,688	7.9%	3,177	4.8%	2,732	9.3%	128,281
20-24	62,697	5.3%	47,247	7.8%	6,602	7.5%	2,875	8.4%	3,421	5.2%	2,232	7.6%	125,074
25-29	80,900	6.9%	54,117	9.0%	7,340	8.3%	3,687	10.8%	5,627	8.5%	2,507	8.6%	154,178
30-34	74,551	6.4%	52,784	8.8%	6,678	7.6%	3,432	10.1%	6,592	10.0%	1,928	6.6%	145,965
35-39	77,725	6.6%	46,275	7.7%	6,738	7.6%	2,745	8.1%	6,982	10.6%	1,479	5.0%	141,944
40-44	79,903	6.8%	37,180	6.2%	6,066	6.9%	2,294	6.7%	5,544	8.4%	1,280	4.4%	132,267
45-49	91,185	7.8%	30,533	5.1%	5,940	6.7%	2,139	6.3%	4,706	7.1%	1,174	4.0%	135,677
50-54	88,346	7.5%	22,677	3.8%	4,972	5.6%	1,661	4.9%	4,076	6.2%	1,004	3.4%	122,736
55-59	81,581	7.0%	16,809	2.8%	4,055	4.6%	1,279	3.8%	3,429	5.2%	810	2.8%	107,963
60-64	73,818	6.3%	12,143	2.0%	2,821	3.2%	886	2.6%	2,775	4.2%	629	2.1%	93,072
65-69	56,779	4.8%	8,123	1.3%	2,050	2.3%	603	1.8%	2,007	3.0%	460	1.6%	70,022
70-74	43,691	3.7%	5,782	1.0%	1,469	1.7%	475	1.4%	1,412	2.1%	321	1.1%	53,150
75+	111,602	9.5%	9,698	1.6%	2,653	3.0%	646	1.9%	2,248	3.4%	564	1.9%	127,411
Total	1,173,035		602,049		88,243		34,066		65,885		29,304		1,992,582
<b>Males</b>													
0-4	65,878	5.8%	82,243	12.1%	8,280	9.1%	3,241	10.3%	5,140	8.6%	4,878	16.9%	169,660
5-9	66,774	5.9%	73,726	10.9%	8,358	9.2%	2,954	9.3%	4,787	8.0%	4,342	15.1%	160,941
10-14	65,873	5.8%	60,776	9.0%	7,550	8.3%	2,552	8.1%	4,068	6.8%	3,711	12.9%	144,530
15-19	65,862	5.8%	56,434	8.3%	7,761	8.5%	2,724	8.6%	3,485	5.8%	2,797	9.7%	139,063
20-24	65,996	5.8%	56,524	8.3%	7,625	8.4%	2,893	9.2%	3,339	5.6%	2,209	7.7%	138,586
25-29	83,073	7.3%	69,810	10.3%	8,512	9.3%	3,437	10.9%	5,139	8.6%	2,289	7.9%	172,260
30-34	77,236	6.8%	69,524	10.2%	6,979	7.7%	3,154	10.0%	6,040	10.1%	1,790	6.2%	164,723
35-39	80,928	7.1%	56,692	8.4%	6,987	7.7%	2,542	8.0%	6,555	10.9%	1,481	5.1%	155,185
40-44	82,098	7.2%	45,441	6.7%	6,258	6.9%	2,142	6.8%	5,176	8.6%	1,114	3.9%	142,229
45-49	90,420	7.9%	35,116	5.2%	6,398	7.0%	1,776	5.6%	4,309	7.2%	1,123	3.9%	139,142
50-54	85,226	7.5%	24,699	3.6%	5,141	5.6%	1,373	4.3%	3,375	5.6%	897	3.1%	120,711
55-59	74,721	6.6%	17,076	2.5%	3,749	4.1%	956	3.0%	2,622	4.4%	680	2.4%	99,804
60-64	67,406	5.9%	11,725	1.7%	2,713	3.0%	710	2.2%	1,970	3.3%	487	1.7%	85,011
65-69	50,709	4.4%	7,438	1.1%	1,750	1.9%	440	1.4%	1,435	2.4%	354	1.2%	62,126
70-74	38,274	3.4%	4,805	0.7%	1,306	1.4%	310	1.0%	1,041	1.7%	269	0.9%	46,005
75+	79,980	7.0%	6,568	1.0%	1,724	1.9%	411	1.3%	1,511	2.5%	380	1.3%	90,574
Total	1,140,454		678,597		91,091		31,615		59,992		28,801		2,030,550

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2009.

## Maricopa County 2009 Population Statistics



## Maricopa County 2009 Population Statistics



## ***II. Maricopa County 2009 Mortality (Death) Statistics***

**Maricopa County 2009 Mortality (Death) Statistics**  
**Table 2.01a Number of Deaths by Age Group and Race/Ethnicity**

Age Group	Race/Ethnicity						Total
	White	Hispanic	African American	American Indian	Asian	Other/ Unknown	
<1	122	131	53	11	12	0	329
1-4	30	42	4	1	3	0	80
5-9	16	21	2	1	3	0	43
10-14	15	25	4	3	0	0	47
15-19	60	60	8	4	5	1	138
20-24	106	66	18	6	3	2	201
25-34	284	161	48	23	10	0	526
35-44	494	200	74	36	14	5	823
45-54	1,316	321	128	54	31	5	1,855
55-64	2,229	410	161	42	48	14	2,904
65-74	3,209	418	152	44	47	15	3,885
75-84	5,432	485	163	42	97	6	6,225
85+	6,686	375	129	24	64	4	7,282
<b>Total</b>	<b>19,999</b>	<b>2,715</b>	<b>944</b>	<b>291</b>	<b>337</b>	<b>52</b>	<b>24,338</b>

**Table 2.01b Death Rates by Age Group and Race/Ethnicity**  
**Crude Death Rate per 100,000 Residents**

Age Group	Race/Ethnicity						Total
	White	Hispanic	African American	American Indian	Asian	Other/ Unknown	
0-4	118.0	107.1	348.0	183.6	147.8	-	122.9
5-9	12.3	14.6	12.0	17.0	31	-	13.6
10-14	11.7	21.1	26.7	60	0.0	-	16.7
15-19	47.2	55.6	54.0	73.9	75.1	-	51.6
20-24	82.4	63.6	126.5	104.0	44.4	-	76.2
25-34	89.9	65.4	162.7	167.8	42.7	-	82.6
35-44	154.1	107.8	284.1	370.3	57.7	-	144.0
45-54	370.5	284.0	570.1	777.1	188.3	-	357.9
55-64	749.2	709.9	1,207.1	1,096.3	444.6	-	752.6
65-74	1,693.8	1,598.6	2,311.8	2,407.0	797.3	-	1,679.6
75-84	4,107.0	3,996.4	4,784.3	5,147.1	3,405.9	-	4,090.7
85+	11,271.3	9,079.9	13,299.0	9,958.5	7,025.2	-	11,064.9
<b>Total</b>	<b>864.5</b>	<b>212.0</b>	<b>526.4</b>	<b>443.1</b>	<b>267.7</b>	<b>-</b>	<b>605.0</b>

**Maricopa County 2009 Mortality (Death) Statistics**  
**Table 2.02a Number of Deaths by Age Group and Sex**

Age Group	Gender			Total
	Male	Female	Unknown	
<1	186	143	0	329
1-4	38	42	0	80
5-9	28	15	0	43
10-14	30	17	0	47
15-19	100	38	0	138
20-24	152	49	0	201
25-34	357	169	0	526
35-44	497	326	0	823
45-54	1,179	676	0	1,855
55-64	1,771	1,133	0	2,904
65-74	2,167	1,718	0	3,885
75-84	3,131	3,094	0	6,225
85+	2,814	4,467	1	7,282
<b>Total</b>	<b>12,450</b>	<b>11,887</b>	<b>1</b>	<b>24,338</b>

**Table 2.02b Death Rates by Age Group and Sex**  
**Crude Death Rate per 100,000 Residents**

Age Group	Gender			Total
	Male	Female	Unknown	
0-4	132.0	113.3	-	122.9
5-9	17.4	9.7	-	13.6
10-14	20.8	12.4	-	16.7
15-19	71.9	29.6	-	51.6
20-24	109.7	39.2	-	76.2
25-34	105.9	56.3	-	82.6
35-44	167.1	118.9	-	144.0
45-54	453.7	261.6	-	357.9
55-64	958.3	563.6	-	752.6
65-74	2,004.1	1,394.8	-	1,679.6
75-84	4,689.4	3,622.7	-	4,090.7
85+	11,820.1	10,634.4	-	11,064.9
<b>Total</b>	<b>613.1</b>	<b>596.6</b>	<b>-</b>	<b>605.0</b>

**Maricopa County 2009 Mortality (Death) Statistics**  
**Table 2.03a Selected Underlying Causes of Death by Race/Ethnicity**  
**Number of Cases**

Cause			Race/Ethnicity					Total	
			White	Hispanic	African American	American Indian	Asian		Other/ Unknown
Infectious Diseases	Tuberculosis		1	1	0	1	2	0	5
	Syphilis		0	0	0	0	0	0	0
	HIV		27	17	16	2	0	0	62
Cancer	Stomach		53	23	9	2	6	0	93
	Colon		386	43	16	3	9	0	457
	Pancreas		293	34	7	1	6	1	342
	Lung		1,246	85	48	10	17	4	1,410
	Breast		321	39	21	4	3	0	388
	Uterine & Ovarian		198	39	9	1	5	0	252
	Prostate		241	27	14	2	1	0	285
	Urinary		244	31	8	2	2	1	288
	Lymphoma		192	16	5	0	3	0	216
	Leukemia		212	37	12	1	6	0	268
	Other		1,166	174	35	19	26	1	1,421
	All Cancer		4,552	548	184	45	84	7	5,420
	Diabetes and Alzheimer's		Diabetes	365	110	41	20	12	0
Alzheimer's			1,337	93	33	5	11	2	1,481
Major Cardiovascular Diseases	Heart Disease	Hypertensive Heart Disease	350	39	27	2	3	2	423
		Ischemic Heart Disease	3,546	338	158	28	53	9	4,132
		Other Heart Disease	736	77	36	7	8	0	864
		All Heart Disease	4,632	454	221	37	64	11	5,419
	Other Cardio-vascular	Primary Hypertension	248	33	26	3	6	2	318
		Cerebrovascular	876	108	52	5	26	1	1,068
		Atherosclerosis	75	2	2	0	1	0	80
		Other Circulatory	146	18	6	0	1	0	171
		All Other Cardiovascular	1,345	161	86	8	34	3	1,637
Other Respiratory Diseases		Influenza & Pneumonia	402	69	21	13	11	3	519
		Chronic Lower Respiratory	1,338	54	28	8	10	6	1,444
GI & Urinary		Peptic Ulcer	21	4	1	0	0	0	26
		Liver Disease	252	90	5	34	2	0	383
		Nephritis	139	35	18	4	1	0	197
Pregnancy & Early Life		Pregnancy	1	3	0	0	0	0	4
		Perinatal Conditions	48	77	28	9	6	0	168
		Congenital Malformations	72	33	11	2	8	0	126
		SIDS	6	6	5	0	1	0	18
Other Diseases		Symptoms, Signs	476	56	19	2	7	5	565
		Other Diseases	3,213	454	123	48	50	8	3,896
External Causes		Motor Vehicle Collisions	217	109	10	11	7	1	355
		All Other Accidents	1,005	154	43	21	13	5	1,241
		Suicide	412	75	20	9	12	1	529
		Homicide	75	99	28	10	0	0	212
		Other External Causes	58	13	3	2	2	0	78
		All External Causes	1,767	450	104	53	34	7	2,415
Unknown			5	0	0	0	0	0	17
Total			19,999	2,715	944	291	337	52	24,338

**Maricopa County 2009 Mortality (Death) Statistics**  
**Table 2.03b Selected Underlying Causes of Death by Race/Ethnicity**  
**Crude Death Rate per 100,000 Residents**

Cause		Race/Ethnicity						Total	
		White	Hispanic	African American	American Indian	Asian	Other/ Unknown		
Infectious Diseases	Tuberculosis	0.0	0.1	0	1.5	1.6	-	0.1	
	Syphilis	0	0	0	0	0	-	0	
	HIV	1.2	1.3	8.9	3.0	0	-	1.5	
Cancer	Stomach	2.3	1.8	5.0	3.0	4.8	-	2.3	
	Colon	16.7	3.4	8.9	4.6	7.1	-	11.4	
	Pancreas	12.7	2.7	3.9	1.5	4.8	-	8.5	
	Lung	53.9	6.6	26.8	15.2	13.5	-	35.0	
	Breast	13.9	3.0	11.7	6.1	2.4	-	9.6	
	Uterine & Ovarian <sup>1</sup>	16.9	6.5	10.2	2.9	7.6	-	12.6	
	Prostate <sup>1</sup>	21.1	4.0	15.4	6.3	1.7	-	14.0	
	Urinary	10.5	2.4	4.5	3.0	1.6	-	7.2	
	Lymphoma	8.3	1.2	2.8	0.0	2.4	-	5.4	
	Leukemia	9.2	2.9	6.7	1.5	4.8	-	6.7	
	Other	50.4	13.6	19.5	28.9	20.7	-	35.3	
	All Cancer	196.8	42.8	102.6	68.5	66.7	-	134.7	
Diabetes and Alzheimer's	Diabetes	15.8	8.6	22.9	30.5	9.5	-	13.6	
	Alzheimer's	57.8	7.3	18.4	7.6	8.7	-	36.8	
Major Cardiovascular Diseases	Heart Disease	Hypertensive Heart Disease	15.1	3.0	15.1	3.0	2.4	-	10.5
		Ischemic Heart Disease	153.3	26.4	88.1	42.6	42.1	-	102.7
		Other Heart Disease	31.8	6.0	20.1	10.7	6.4	-	21.5
		All Heart Disease	200.2	35.5	123.2	56.3	50.8	-	134.7
	Other Cardiovascular	Primary Hypertension	10.7	2.6	14.5	4.6	4.8	-	7.9
		Cerebrovascular	37.9	8.4	29.0	7.6	20.7	-	26.5
		Atherosclerosis	3.2	0.2	1.1	0	0.8	-	2.0
		Other Circulatory	6.3	1.4	3.3	0	0.8	-	4.3
		All Other Cardiovascular	58.1	12.6	48.0	12.2	27.0	-	40.7
Other Respiratory Diseases	Influenza & Pneumonia	17.4	5.4	11.7	19.8	8.7	-	12.9	
	Chronic Lower Respiratory	57.8	4.2	15.6	12.2	7.9	-	35.9	
GI & Urinary	Peptic Ulcer	0.9	0.3	0.6	0	0	-	0.6	
	Liver Disease	10.9	7.0	2.8	51.8	1.6	-	9.5	
	Nephritis	6.0	2.7	10.0	6.1	0.8	-	4.9	
Pregnancy & Early Life	Pregnancy <sup>1</sup>	0.1	0.5	0	0	0	-	0.2	
	Perinatal Conditions	2.1	6.0	15.6	13.7	4.8	-	4.2	
	Congenital Malformations	3.1	2.6	6.1	3.0	6.4	-	3.1	
	SIDS <sup>2</sup>	0.2	0.2	1.6	0	0.4	-	0.3	
Other Diseases	Symptoms, Signs	20.6	4.4	10.6	3.0	5.6	-	14.0	
	Other Diseases	138.9	35.5	68.6	73.1	39.7	-	96.8	
External Causes	Motor Vehicle Collisions	9.4	8.5	5.6	16.7	5.6	-	8.8	
	All Other Accidents	43.4	12.0	24.0	32.0	10.3	-	30.8	
	Suicide	17.8	5.9	11.2	13.7	9.5	-	13.1	
	Homicide	3.2	7.7	15.6	15.2	0	-	5.3	
	Other External Causes	2.5	1.0	1.7	3.0	1.6	-	1.9	
	All External Causes	76.4	35.1	58.0	80.7	27.0	-	60.0	
Unknown		0.2	0	0	0	0	-	0.1	
Total		864.5	212.0	526.4	443.1	267.7	-	605.0	

<sup>1</sup> Uterine & ovarian cancer and pregnancy rates are per 100,000 females; prostate cancer rates are per 100,000 males.

<sup>2</sup> Sudden Infant Death Syndrome (SIDS) rates are per 1,000 live births



## Maricopa County 2009 Mortality (Death) Statistics

**Table 2.04a Selected Underlying Causes of Death by Age Group  
Number of Cases**

Cause		Age Group													Total	
		<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+		
Infectious Diseases	Tuberculosis	0	0	0	0	0	0	0	0	0	3	2	0	0	5	
	Syphilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	HIV	0	0	0	0	0	0	3	18	29	10	2	0	0	62	
Cancer	Stomach	0	0	0	0	0	0	1	6	11	14	16	24	21	93	
	Colon	0	0	0	0	0	0	3	17	44	78	100	122	93	457	
	Pancreas	0	0	0	0	0	0	0	1	24	66	96	92	63	342	
	Lung	0	0	0	0	1	0	3	8	90	249	426	449	184	1,410	
	Breast	0	0	0	0	0	0	4	26	49	81	84	74	70	388	
	Uterine & Ovarian	0	0	0	0	0	1	10	10	29	60	50	57	35	252	
	Prostate	0	0	0	0	0	0	0	0	9	26	57	108	85	285	
	Urinary	0	0	0	0	0	0	1	5	14	45	73	88	62	288	
	Lymphoma	0	0	1	0	0	0	2	3	19	28	53	70	40	216	
	Leukemia	0	4	3	3	4	3	9	7	15	31	56	87	46	268	
	Other Cancer	0	3	5	5	6	10	20	59	153	297	321	334	208	1,421	
	All Cancer	0	7	9	8	11	14	53	142	457	975	1,332	1,505	907	5,420	
	Diabetes and Alzheimer's	Diabetes	0	0	0	0	0	2	12	16	45	92	121	158	102	548
		Alzheimer's	0	0	0	0	0	0	0	0	0	13	66	421	981	1,481
Major Cardio-vascular Diseases	Heart Disease	Hypertensive Heart Disease	0	0	0	0	0	1	7	11	40	68	51	86	159	423
		Ischemic Heart Disease	0	0	0	0	0	0	9	50	219	418	651	1,162	1,623	4,132
		Other Heart Disease	6	1	1	1	2	8	13	33	53	70	107	228	341	864
		All Heart Disease	6	1	1	1	2	9	29	94	312	556	809	1,476	2,123	5,419
	Other Cardio-vascular	Primary Hypertension	0	0	0	0	0	0	1	3	14	28	48	93	131	318
		Cerebrovascular	4	0	2	0	1	0	4	15	50	63	148	348	433	1,068
		Atherosclerosis	0	0	0	0	0	0	0	0	0	6	7	25	42	80
		Other Circulatory	0	0	1	1	1	0	1	3	11	20	34	45	54	171
		All Other Cardiovascular	4	0	3	1	2	0	6	21	75	117	237	511	660	1,637

(Continued)

## Maricopa County 2009 Mortality (Death) Statistics

(Table 2.04a Continued)

Cause		Age Group													Total
		<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Other Respiratory Diseases	Influenza & Pneumonia	3	3	2	3	4	2	9	11	39	54	85	155	149	519
	Chronic Lower Respiratory	0	0	1	1	1	1	3	7	28	136	321	497	448	1,444
GI & Urinary	Peptic Ulcer	0	0	0	0	0	0	0	0	2	5	4	8	7	26
	Liver Disease	0	0	0	0	0	1	11	40	99	110	61	48	13	383
	Nephritis	0	0	0	0	0	0	2	7	12	26	44	52	54	197
Pregnancy & Early Life	Pregnancy	0	0	0	0	0	0	2	2	0	0	0	0	0	4
	Perinatal Conditions	164	2	1	1	0	0	0	0	0	0	0	0	0	168
	Congenital Malformations	70	7	3	1	2	6	3	6	3	8	3	6	8	126
	SIDS	18	0	0	0	0	0	0	0	0	0	0	0	0	18
Other Diseases	Symptoms, Signs	27	6	0	3	1	4	12	22	23	26	29	97	315	565
	Other Diseases	21	16	8	9	10	9	71	109	294	504	607	1,049	1,189	3,896
External Causes	Motor Vehicle Collisions	2	11	10	11	25	39	49	54	50	40	29	20	15	355
	All Other Accidents	10	20	3	3	28	47	126	123	213	117	88	174	289	1,241
	Suicide	0	0	0	2	21	35	79	99	115	78	42	41	17	529
	Homicide	2	6	2	3	27	28	48	44	29	16	3	3	1	212
	Other External Causes	2	1	0	0	4	4	7	8	30	16	0	4	2	78
	All External Causes	16	38	15	19	105	153	309	328	437	267	162	242	324	2,415
Unknown		0	0	0	0	0	0	1	0	0	2	0	0	2	5
Total		329	80	43	47	138	201	526	823	1,855	2,904	3,885	6,225	7,282	24,338

## Maricopa County 2009 Mortality (Death) Statistics

**Table 2.04b Selected Underlying Causes of Death by Age Group**  
**Crude Death Rate per 100,000 Residents**

Cause		Age Group												Total
		0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Infectious Diseases	Tuberculosis	0	0	0	0	0	0	0	0	0.8	0.9	0	0	0.1
	Syphilis	0	0	0	0	0	0	0	0	0	0	0	0	0
	HIV	0	0	0	0	0	0.5	3.1	5.6	2.6	0.9	0	0	1.5
Cancer	Stomach	0	0	0	0	0	0.2	1.0	2.1	3.6	6.9	15.8	31.9	2.3
	Colon	0	0	0	0	0	0.5	3.0	8.5	20.2	43.2	80.2	141.3	11.4
	Pancreas	0	0	0	0	0	0	0.2	4.6	17.1	41.5	60.5	95.7	8.5
	Lung	0	0	0	0.4	0	0.5	1.4	17.4	64.5	184.2	295.1	279.6	35.0
	Breast	0	0	0	0	0	0.6	4.5	9.5	21.0	36.3	48.6	106.4	9.6
	Uterine & Ovarian	0	0	0	0	0.4	1.6	1.7	5.6	15.6	21.6	37.5	53.2	12.6
	Prostate	0	0	0	0	0	0	0	1.7	6.7	24.6	71.0	129.2	14.0
	Urinary	0	0	0	0	0	0.2	0.9	2.7	11.7	31.6	57.8	94.2	7.2
	Lymphoma	0	0.3	0	0	0	0.3	0.5	3.7	7.3	22.9	46.0	60.8	5.4
	Leukemia	1.2	1.0	1.1	1.5	1.1	1.4	1.2	2.9	8.0	24.2	57.2	69.9	6.7
	Other Cancer	0.9	1.6	1.8	2.2	3.8	3.1	10.3	29.5	77.0	138.8	219.5	316.1	35.3
	All Cancer	2.1	2.9	2.8	4.1	5.3	8.3	24.8	88.2	252.7	575.9	989.0	1,378.2	134.7
Diabetes and Alzheimer's	Diabetes	0	0	0	0	0.8	1.9	2.8	8.7	23.8	52.3	103.8	155.0	13.6
	Alzheimer's	0	0	0	0	0	0	0	0	3.4	28.5	276.7	1,490.6	36.8
Major Cardio-vascular Diseases	Heart Disease	Hypertensive Heart Disease	0	0	0	0.4	1.1	1.9	7.7	17.6	22.0	56.5	241.6	10.5
		Ischemic Heart Disease	0	0	0	0	1.4	8.7	42.3	108.3	281.4	763.6	2,466.1	102.7
		Other Heart Disease	2.1	0.3	0.4	0.7	3.0	2.0	5.8	18.1	46.3	149.8	518.1	21.5
		All Heart Disease	2.1	0.3	0.4	0.7	3.4	4.6	16.4	60.2	144.1	349.8	969.9	134.7
	Other Cardio-vascular	Primary Hypertension	0	0	0	0	0.2	0.5	2.7	7.3	20.8	61.1	199.1	7.9
		Cerebrovascular	1.2	0.6	0	0.4	0	0.6	2.6	9.6	16.3	64.0	228.7	26.5
		Atherosclerosis	0	0	0	0	0	0	0	1.6	3.0	16.4	63.8	2.0
		Other Circulatory	0	0.3	0.4	0.4	0	0.2	0.5	2.1	5.2	14.7	29.6	4.3
		All Other Cardiovascular	1.2	1.0	0.4	0.7	0	0.9	3.7	14.5	30.3	102.5	335.8	40.7

(Continued)

## Maricopa County 2009 Mortality (Death) Statistics

(Table 2.04b Continued)

Cause		Age Group												Total
		0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Other Respiratory Diseases	Influenza & Pneumonia	1.8	0.6	1.1	1.5	0.8	1.4	1.9	7.5	14.0	36.7	101.9	226.4	12.9
	Chronic Lower Respiratory	0	0.3	0.4	0.4	0.4	0.5	1.2	5.4	35.2	138.8	326.6	680.7	35.9
GI & Urinary	Peptic Ulcer	0	0	0	0	0	0	0	0.4	1.3	1.7	5.3	10.6	0.6
	Liver Disease	0	0	0	0	0.4	1.7	7.0	19.1	28.5	26.4	31.5	19.8	9.5
	Nephritis	0	0	0	0	0	0.3	1.2	2.3	6.7	19.0	34.2	82.1	4.9
Pregnancy & Early Life	Pregnancy	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0.2
	Perinatal Conditions	49.9	0.3	0.4	0	0	0	0	0	0	0	0	0	4.2
	Congenital Malformations	23.1	1.0	0.4	0.7	2.3	0.5	1.0	0.6	2.1	1.3	3.9	12.2	3.1
	SIDS	0.3	0	0	0	0	0	0	0	0	0	0	0	0.3
Other Diseases	Symptoms, Signs	9.9	0	1.1	0.4	1.5	1.9	3.8	4.4	6.7	12.5	63.7	478.6	14.0
	Other Diseases	11.1	2.5	3.2	3.7	3.4	11.1	19.1	56.7	130.6	262.4	689.3	1,806.7	96.8
External Causes	Motor Vehicle Collisions	3.9	3.2	3.9	9.4	14.8	7.7	9.4	9.6	10.4	12.5	13.1	22.8	8.8
	All Other Accidents	9.0	1.0	1.1	10.5	17.8	19.8	21.5	41.1	30.3	38.0	114.3	439.1	30.8
	Suicide	0	0	0.7	7.9	13.3	12.4	17.3	22.2	20.2	18.2	26.9	25.8	13.1
	Homicide	2.4	0.6	1.1	10.1	10.6	7.5	7.7	5.6	4.1	1.3	2.0	1.5	5.3
	Other External Causes	0.9	0	0	1.5	1.5	1.1	1.4	5.8	4.1	0	2.6	3.0	1.9
	All External Causes	16.2	4.8	6.7	39.3	58.0	48.5	57.4	84.3	69.2	70.0	159.0	492.3	60.0
Unknown		0	0	0	0	0	0.2	0	0	0.5	0	0	3.0	0.1
<b>Total</b>		122.9	13.6	16.7	51.6	76.2	82.6	144.0	357.9	752.6	1,679.6	4,090.7	11,064.9	605.0

<sup>1</sup> Uterine & ovarian cancer and pregnancy rates are per 100,000 females; prostate cancer rates are per 100,000 males.

<sup>2</sup> Sudden Infant Death Syndrome (SIDS) rates are per 1,000 live births.

## Maricopa County 2009 Mortality (Death) Statistics

**Table 2.05a Selected Underlying Causes of Death by Sex  
Number of Cases**

Cause		Gender			Total	
		Male	Female	Unknown		
Infectious Diseases	Tuberculosis	4	1	0	5	
	Syphilis	0	0	0	0	
	HIV	57	5	0	62	
Cancer	Stomach	47	46	0	93	
	Colon	228	229	0	457	
	Pancreas	166	176	0	342	
	Lung	761	649	0	1,410	
	Breast	5	383	0	388	
	Uterine & Ovarian	0	252	0	252	
	Prostate	285	0	0	285	
	Urinary	202	86	0	288	
	Lymphoma	112	104	0	216	
	Leukemia	150	118	0	268	
	Other Cancer	870	551	0	1,421	
	All Cancer	2,826	2,594	0	5,420	
	Diabetes and Alzheimer's	Diabetes	289	259	0	548
Alzheimer's		481	1,000	0	1,481	
Major Cardiovascular Diseases	Heart Disease	Hypertensive Heart Disease	201	222	0	423
		Ischemic Heart Disease	2,292	1,839	1	4,132
		Other Heart Disease	403	461	0	864
		All Heart Disease	2,896	2,522	1	5,419
	Other Cardio-vascular	Primary Hypertension	159	159	0	318
		Cerebrovascular	438	630	0	1,068
		Atherosclerosis	37	43	0	80
		Other Circulatory	93	78	0	171
		All Other Cardiovascular	727	910	0	1,637
Other Respiratory Diseases	Influenza & Pneumonia	252	267	0	519	
	Chronic Lower Respiratory	662	782	0	1,444	
GI & Urinary	Peptic Ulcer	10	16	0	26	
	Liver Disease	244	139	0	383	
	Nephritis	112	85	0	197	
Pregnancy & Early Life	Pregnancy	0	4	0	4	
	Perinatal Conditions	95	73	0	168	
	Congenital Malformations	74	52	0	126	
	SIDS	10	8	0	18	
Other Diseases	Symptoms, Signs	212	353	0	565	
	Other Diseases	1,905	1,991	0	3,896	
External Causes	Motor Vehicle Collisions	253	102	0	355	
	All Other Accidents	730	511	0	1,241	
	Suicide	405	124	0	529	
	Homicide	159	53	0	212	
	Other External Causes	44	34	0	78	
	All External causes	1,591	824	0	2,415	
Unknown		3	2	0	5	
Total		12,450	11,887	1	24,338	

## Maricopa County 2009 Mortality (Death) Statistics

**Table 2.05b Selected Underlying Causes of Death by Sex  
Crude Death Rate per 100,000 Residents**

Cause		Gender			Total	
		Male	Female	Unknown		
Infectious Diseases	Tuberculosis	0.2	0.1	-	0.1	
	Syphilis	0	0	-	0	
	HIV	2.8	0.3	-	1.5	
Cancer	Stomach	2.3	2.3	-	2.3	
	Colon	11.2	11.5	-	11.4	
	Pancreas	8.2	8.8	-	8.5	
	Lung	37.5	32.6	-	35.0	
	Breast	0.2	19.2	-	9.6	
	Uterine & Ovarian <sup>1</sup>	0	12.6	-	12.6	
	Prostate <sup>1</sup>	14.0	0	-	14.0	
	Urinary	9.9	4.3	-	7.2	
	Lymphoma	5.5	5.2	-	5.4	
	Leukemia	7.4	5.9	-	6.7	
	Other Cancer	42.8	27.7	-	35.3	
	All Cancer	139.2	130.2	-	134.7	
	Diabetes and Alzheimer's	Diabetes	14.2	13.0	-	13.6
Alzheimer's		23.7	50.2	-	36.8	
Major Cardiovascular Diseases	Heart Disease	Hypertensive Heart Disease	9.9	11.1	-	10.5
		Ischemic Heart Disease	112.9	92.3	-	102.7
		Other Heart Disease	19.8	23.1	-	21.5
		All Heart Disease	142.6	126.6	-	134.7
	Other Cardio-vascular	Primary Hypertension	7.8	8.0	-	7.9
		Cerebrovascular	21.6	31.6	-	26.5
		Atherosclerosis	1.8	2.2	-	2.0
		Other Circulatory	4.6	3.9	-	4.3
		All Other Cardiovascular	35.8	45.7	-	40.7
Other Respiratory Diseases		Influenza & Pneumonia	12.4	13.2	-	12.9
		Chronic Lower Respiratory	32.6	39.2	-	35.9
GI & Urinary		Peptic Ulcer	0.5	0.8	-	0.6
		Liver Disease	12.0	7.0	-	9.5
		Nephritis	5.5	4.3	-	4.9
Pregnancy & Early Life		Pregnancy <sup>1</sup>	0	0.2	-	0.2
		Perinatal Conditions	4.7	3.7	-	4.2
		Congenital Malformations	3.6	2.6	-	3.1
		SIDS <sup>2</sup>	0.3	0.3	-	0.3
Other Diseases		Symptoms, Signs	10.4	17.7	-	14.0
		Other Diseases	93.8	99.9	-	96.8
External Causes		Motor Vehicle Collisions	12.5	5.1	-	8.8
		All Other Accidents	36.0	25.6	-	30.8
		Suicide	19.9	6.2	-	13.1
		Homicide	7.8	2.7	-	5.3
		Other External Causes	2.2	1.7	-	1.9
		All External causes	78.4	41.4	-	60.0
Unknown		0.1	0.1	-	0.1	
Total		613.1	596.6	-	605.0	

<sup>1</sup> Uterine & ovarian cancer and pregnancy rates are per 100,000 females; prostate cancer rates are per 100,000 males.

<sup>2</sup> Sudden Infant Death Syndrome (SIDS) rates are per 1,000 live births.

## **Maricopa County 2009 Mortality (Death) Statistics**

**Table 2.06a Firearm, Drug, and Alcohol Induced and Related Deaths by Age Group  
Number of Cases**

Age Group	Firearm Related	Drug Induced	Drug Related, Exc. Tobacco	Drug Related, Inc. Tobacco	Alcohol Induced	Alcohol Related
0-9	4	2	3	3	0	0
10-14	1	0	0	0	0	0
15-19	28	25	27	27	1	3
20-24	48	40	45	45	4	9
25-34	77	105	113	114	21	40
35-44	70	126	138	140	58	92
45-54	88	197	220	234	127	196
55-64	51	86	100	116	115	169
65-74	28	22	24	63	53	86
75-84	37	14	13	56	24	29
85+	15	1	1	26	4	7
Total	447	618	684	824	407	631

**Table 2.06b Firearm, Drug, and Alcohol Induced and Related Deaths by Age Group  
Crude Death Rate per 100,000 Residents**

Age Group	Firearm Related	Drug Induced	Drug Related, Exc. Tobacco	Drug Related, Inc. Tobacco	Alcohol Induced	Alcohol Related
0-9	0.6	0.3	0.5	0.5	0	0
10-14	0.4	0	0	0	0	0
15-19	10.5	9.4	10.1	10.1	0	1.1
20-24	18.2	15.2	17.1	17.1	2	3.4
25-34	12.1	16.5	17.7	17.9	3.3	6.3
35-44	12.2	22.0	24.1	24.5	10.1	16.1
45-54	17.0	38.0	42.4	45.2	24.5	37.8
55-64	13.2	22.3	25.9	30.1	29.8	43.8
65-74	12.1	9.5	10.4	27.2	22.9	37.2
75-84	24.3	9.2	8.5	36.8	15.8	19.1
85+	22.8	1.5	1.5	39.5	6.1	10.6
Total	11.1	15.4	17.0	20.5	10.1	15.7

Note: Firearm, drug, and alcohol induced and related deaths are also included in other categories, e.g., suicide, homicide or unintentional injuries.  
Refer to the Technical Notes for a complete explanation of induced versus related deaths involving firearms, drugs, or alcohol.

## Maricopa County 2009 Mortality (Death) Statistics

**Table 2.07a Firearm, Drug, and Alcohol Induced and Related Deaths by Race/Ethnicity  
Number of Cases**

Race/Ethnicity	Firearm Related	Drug Induced	Drug Related, Exc. Tobacco	Drug Related, Inc. Tobacco	Alcohol Induced	Alcohol Related
White	296	492	538	661	274	437
Hispanic	106	82	89	99	78	115
African American	32	25	33	38	14	26
American Indian	8	14	15	17	37	48
Asian	4	2	5	5	2	3
Other/ Unknown	1	3	4	4	2	2
Total	447	618	684	824	407	631

**Table 2.07b Firearm, Drug, and Alcohol Induced and Related Deaths by Race/Ethnicity  
Crude Death Rate per 100,000 Residents**

Race/Ethnicity	Firearm Related	Drug Induced	Drug Related, Exc. Tobacco	Drug Related, Inc. Tobacco	Alcohol Induced	Alcohol Related
White	12.8	21.3	23.3	28.6	11.8	18.9
Hispanic	8.3	6.4	6.9	7.7	6.1	9.0
African American	17.8	13.9	18.4	21.2	7.8	14.5
American Indian,	12.2	21.3	22.8	25.9	56.3	73.1
Asian	3.2	1.6	4.0	4.0	1.6	2.4
Other/ Unknown	-	-	-	-	-	-
Total	11.1	15.4	17.0	20.5	10.1	15.7

**Table 2.08a Firearm, Drug, and Alcohol Induced and Related Deaths by Sex  
Number of Cases**

Gender	Firearm Related	Drug Induced	Drug Related, Exc. Tobacco	Drug Related, Inc. Tobacco	Alcohol Induced	Alcohol Related
Male	375	380	415	501	298	474
Female	72	238	269	323	109	157
Total	447	618	684	824	407	631

**Table 2.08b Firearm, Drug, and Alcohol Induced and Related Deaths by Sex  
Crude Death Rate per 100,000 Residents**

Gender	Firearm Related	Drug Induced	Drug Related, Exc. Tobacco	Drug Related, Inc. Tobacco	Alcohol Induced	Alcohol Related
Male	18.5	18.7	20.4	24.7	14.7	23.3
Female	3.6	11.9	13.5	16.2	5.5	7.9
Total	11.1	15.4	17.0	20.5	10.1	15.7

Note: Firearm, drug, and alcohol induced and related deaths are also included in other categories, e.g., suicide, homicide or unintentional injuries.

Refer to the Technical Notes for a complete explanation of induced versus related deaths involving firearms, drugs, or alcohol.



## **Maricopa County 2009 Mortality (Death) Statistics**

**Table 2.09 Heat Induced Deaths by Age, Race/Ethnicity, and Sex**

2009 Deaths to Maricopa County Residents			
	Number Of Cases	Rate per 100,000 Residents	Percent of Heat Deaths
<b>Race/Ethnicity</b>			
White	13	0.6	65.0%
Hispanic	5	0.4	25.0%
African American	1	0.6	5.0%
American Indian	1	1.5	5.0%
Asian	0	0	0.0%
Other/Unknown	0	-	-
Total	20	0.5	
<b>Age at Death</b>			
0-4	1	0.3	5.0%
5-9	0	0	0.0%
10-14	0	0	0.0%
15-19	0	0	0.0%
20-24	0	0	0.0%
25-34	0	0	0.0%
35-44	1	0.2	5.0%
45-54	8	1.5	40.0%
55-64	3	0.8	15.0%
65-74	2	0.9	10.0%
75-84	4	2.6	20.0%
85 and Older	1	1.5	5.0%
Total	20	0.5	
<b>Sex</b>			
Male	15	0.7	75.0%
Female	5	0.3	25.0%
Total	20	0.5	

This table includes all known 2009 deaths with exposure to excessive natural heat as the underlying cause of death.

## Maricopa County 2009 Mortality (Death) Statistics

**Table 2.10 Number and Percent of Deaths by Race/Ethnicity and Marital Status**

Marital Status	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Single	1,571	7.9	707	26.0	261	27.6	96	33.0	53	15.7	3	5.8	2,691	11.1
Married	8,016	40.1	1,005	37.0	271	28.7	86	29.6	159	47.2	6	11.5	9,543	39.2
Widowed	7,249	36.2	588	21.7	206	21.8	56	19.2	98	29.1	4	7.7	8,201	33.7
Divorced	3,025	15.1	389	14.3	197	20.9	52	17.9	26	7.7	6	11.5	3,695	15.2
Unknown	138	0.7	26	1.0	9	1.0	1	0.3	1	0.3	33	63.5	208	0.9
Total	19,999		2,715		944		291		337		52		24,338	

**Table 2.11 Number and Percent of Deaths by Race/Ethnicity and Education Level**

Educational Level	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian.		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
None	192	1.0	267	9.8	62	6.6	15	5.2	28	8.3	1	1.9	565	2.3
Grade 1-6	296	1.5	577	21.3	36	3.8	18	6.2	26	7.7	0	0	953	3.9
Some High School	2,247	11.2	674	24.8	168	17.8	82	28.2	30	8.9	3	5.8	3,204	13.2
High School Graduate	8,359	41.8	680	25.0	288	30.5	95	32.6	98	29.1	6	11.5	9,526	39.1
Some College	4,410	22.1	303	11.2	214	22.7	57	19.6	64	19.0	2	3.8	5,050	20.7
College Graduate	2,483	12.4	88	3.2	94	10.0	15	5.2	44	13.1	2	3.8	2,726	11.2
Graduate School	1,677	8.4	60	2.2	57	6.0	6	2.1	39	11.6	1	1.9	1,840	7.6
Unknown	335	1.7	66	2.4	25	2.6	3	1.0	8	2.4	37	71.2	474	1.9
Total	19,999		2,715		944		291		337		52		24,338	

**Table 2.12 Number and Percent of Deaths by Race/Ethnicity and Sex**

Gender	Race/Ethnicity												Total	
	White		Hispanic		Black		American Indian.		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Male	10,090	50.5	1,502	55.3	485	51.4	160	55.0	177	52.5	36	69.2	12,450	51.2
Female	9,908	49.5	1,213	44.7	459	48.6	131	45.0	160	47.5	16	30.8	11,887	48.8
Unknown	1	0.0	0	0	0	0	0	0	0	0	0	0	1	0.0
Total	19,999		2,715		944		291		337		52		24,338	

## Maricopa County 2009 Mortality (Death) Statistics

**Table 2.13 Crude and Age Adjusted Rates for Selected Underlying Causes of Death by Race/Ethnicity**

Note: The methods used for age adjusting may be found in the Technical Notes.

<b>Crude Death Rates</b>						
	<b>White</b>	<b>Hispanic</b>	<b>African American</b>	<b>American Indian</b>	<b>Asian</b>	<b>Total</b>
All Causes - Total	864.5	212.0	526.4	443.1	267.7	605.0
Heart Disease	200.2	35.5	123.2	56.3	50.8	134.7
All Cancer	196.8	42.8	102.6	68.5	66.7	134.7
Cerebrovascular	37.9	8.4	29.0	7.6	20.7	26.5
Unintentional Injuries <sup>1</sup>	52.1	20.3	29.0	48.7	15.9	39.2
Pneumonia & Influenza	17.4	5.4	11.7	19.8	8.7	12.9
Diabetes (single cause)	15.8	8.6	22.9	30.5	10.2	13.6
Suicide	17.8	5.9	11.2	13.7	9.5	13.1
Homicide	3.2	7.7	15.6	15.2	0	5.3
AIDS and HIV	1.2	1.3	8.9	3.0	0	1.5
Asthma	0.8	0.5	1.7	0	0.0	0.7
Drug Induced	21.3	6.4	13.9	21.3	1.6	15.4
Firearm Related	12.8	8.3	17.8	12.2	3.2	11.1
Alcohol Induced	11.8	6.1	7.8	56.3	1.6	10.1
<b>Age Adjusted Death Rates</b>						
	<b>White</b>	<b>Hispanic</b>	<b>African American</b>	<b>American Indian</b>	<b>Asian</b>	<b>Total</b>
All Causes	642.2	570.4	863.1	858.1	414.5	634.0
Heart Disease	142.5	120.0	218.5	149.6	82.8	141.1
All Cancer	148.6	115.6	174.2	145.5	96.2	144.1
Cerebrovascular	26.9	29.2	55.8	24.7	36.1	28.1
Unintentional Injuries <sup>1</sup>	44.1	31.2	33.7	60.1	22.6	40.0
Pneumonia & Influenza	12.8	15.2	19.4	38.3	14.2	13.7
Diabetes (single cause)	12.0	27.2	38.5	78.6	14.1	14.5
Suicide	16.2	7.1	11.7	14.1	11.0	13.6
Homicide	3.3	8.3	14.4	13.7	0	5.3
AIDS and HIV	1.1	1.9	10.0	4.2	0	1.6
Asthma	0.7	1.1	1.6	0	1.7	0.7
Drug Induced	20.3	7.7	15.3	21.1	1.9	15.7
Firearm Related	11.7	9.1	16.9	10.7	4.8	11.4
Alcohol Induced	9.9	10.8	8.1	70.3	2.7	10.4

<sup>1</sup> Unintentional injuries listed in this table include 1,576 deaths from unintentional injuries, but do not include the 20 deaths from complications of medical or surgical care. The figure in this table is comparable to the HP 2010 goal for deaths due to unintentional injury. See Technical Notes for details

## Maricopa County 2009 Mortality (Death) Statistics

**Table 2.14 Death Rate Comparisons to Arizona, U.S. and Healthy People 2010 Goals for Selected Underlying Causes of Death**

Causes of Death	2009 Maricopa County		Age Adjusted Rate (Deaths per 100,000 Residents)			
	No. of Indivi- duals	Crude Rate (Deaths per 100,000 Residents)	Maricopa County 2009	Arizona 2009	U.S. 2007/ 2009 <sup>4</sup>	Healthy People 2010 Goal
All Causes	24,338	605.0	634.0	653.2	741.0	
Heart Disease	5,419	134.7	141.1	145.9	179.8	-
Coronary Heart Disease	4,532	112.6	118.0	115.9	-	166.0
All Other Heart Disease	887	22.1	25.4	-	-	-
All Cancers	5,420	134.7	144.1	147.2	173.6	159.9
Lung, Trachea, Bronchus Cancer	1,410	35.0	38.0	39.0	48.4	44.9
Female Breast Cancer <sup>1</sup>	383	19.2	18.5	19.2	26.5	22.3
Prostate Cancer <sup>1</sup>	285	14.0	18.0	18.4	19.6	28.8
All Other Cancers	3,342	66.5	-	-	-	-
Cerebrovascular Disease (Stroke)	1,068	26.5	28.1	28.9	38.9	48.0
Unintentional Injuries (Accidents) <sup>2</sup>	1,576	39.2	40.0	43.1	37.0	17.5
Motor Vehicle	355	8.8	9.0	11.6	11.7	-
Falls	480	11.9	12.3	10.4	7.5	-
Accidental Poisoning	493	12.3	12.5	13.7	9.9	-
Drowning	54	1.3	1.3	1.5	1.1	-
All Other Unintentional Injuries	194	4.9	-	-	-	-
Pneumonia & Influenza	519	12.9	13.7	14.6	16.2	-
Diabetes	548	13.6	14.5	15.7	20.9	45.0
Suicide	529	13.1	13.6	16.1	11.7	5.0
Homicide	212	5.3	5.3	5.5	5.5	3.0
AIDS & HIV	62	1.5	1.6	1.6	3.0	0.7 <sup>3</sup>
Asthma	28	0.7	0.7	-	1.0	-
Drug Induced	618	15.4	15.7	16.8	12.1	1.0
Firearm Related	446	11.1	11.4	12.8	10.0	4.1
Alcohol Induced	407	10.1	10.4	12.0	7.3	-

1. The Maricopa County, Arizona, United States and HP 2010 Goal rates for female breast cancer are calculated as a rate per 100,000 women. The rates for prostate cancer are calculated as rates per 100,000 men.
2. Unintentional injuries listed in this table include 1,576 deaths from unintentional injuries, but do not include the 20 deaths from complications of medical or surgical care. The figure in this table is comparable to the HP 2010 goal. See Technical Notes for details.
3. When compared directly to the Healthy People 2010 Goals, Maricopa County data for HIV/AIDS and drug induced deaths are inflated by approximately 15-20% because a different method of classifying deaths was used to determine the Healthy People Goals.
4. Figures for female breast cancer and prostate cancer are final 2007 U.S. data. All other figures are preliminary 2009 U.S. data.

### ***III. Maricopa County 2009 Communicable Disease Statistics***

**Maricopa County 2009 Communicable Disease Statistics**

**Table 3.01a Number of Cases of Selected Reportable Diseases by Race/Ethnicity**

Disease		Race/Ethnicity						Total
		White	Hispanic	African American	American Indian	Asian	Unknown	
<b>Vaccine Preventable</b>	<i>H. influenzae</i>	29	5	2	3	0	11	50
	Measles	0	0	0	0	0	0	0
	Mumps	3	0	0	0	0	1	4
	Pertussis	27	31	5	0	0	2	65
<b>Central Nervous System</b>	Encephalitis Viral Other	0	1	0	0	0	0	1
	Meningitis Viral/Aseptic	237	124	37	12	5	20	435
	Meningococcal Meningitis	4	1	0	0	1	0	6
<b>Enterics</b>	Amebiasis	0	0	0	0	0	0	0
	Botulism	1	0	0	0	0	2	3
	Campylobacteriosis	136	115	8	15	7	237	518
	Cholera	0	0	0	0	0	0	0
	Cryptosporidiosis	15	2	2	1	0	4	24
	<i>E. Coli</i> O157.H7	15	6	1	1	1	22	46
	Giardiasis	25	23	5	10	1	49	113
	Listeriosis	4	1	0	0	0	0	5
	Norovirus	0	0	0	0	0	40	40
	Salmonella Paratyphi	1	2	0	0	0	0	3
	Salmonellosis	256	93	18	17	1	171	556
	Shigellosis	153	195	32	18	0	123	521
	Typhoid Fever	0	0	0	0	1	1	2
	Coccidioidomycosis	1,348	276	145	44	51	6,214	8,078
<b>Zoonoses/ Vectorborne</b>	Brucellosis	0	1	0	0	0	0	1
	Dengue	0	0	0	0	1	3	4
	Hantavirus Pulmonary Syndrome	0	0	0	0	0	0	0
	Lyme Disease	1	0	0	0	0	0	1
	Malaria	1	0	5	0	2	1	9
	West Nile Virus <sup>1</sup>	16	1	0	1	0	1	19
<b>Hepatitides</b>	Hepatitis A	13	8	1	0	2	6	30
	Hepatitis B (Acute) <sup>1</sup>	18	13	0	2	2	110	145
	Hepatitis D	0	0	0	0	0	0	0
<b>Other</b>	Legionellosis	30	3	1	0	1	2	37
	MRSA	55	20	7	15	1	708	806
	RSV	167	200	11	61	4	1,485	1,928
	Strep Group A	33	12	2	4	0	34	85
	Strep Group B <sup>2</sup> Invasive	7	8	2	2	0	8	27
	Strep Pneumo Invasive	232	85	24	14	4	115	474
	Toxic Shock Syndrome	0	0	0	0	0	0	0
	Vibrio Infection	7	0	0	0	0	2	9
	Yersiniosis	4	0	0	0	0	2	6
	Hansen's Disease	0	0	0	0	0	0	0
<b>Tuberculosis</b>		19	59	15	4	41	0	138
<b>Sexually Transmitted Disease</b>	Genital Herpes	213	164	34	107	5	170	693
	Gonorrhea	755	246	676	82	13	492	2,264
	Syphilis-Primary and Secondary	95	47	14	3	1	0	160
	Syphilis-All Others	166	226	70	27	7	0	496
	Chlamydia	5,528	2,481	1,825	713	158	3,953	14,658
	HIV	159	113	38	7	6	14	337
	AIDS	184	84	53	15	4	6	346
<b>All Others</b>		143	86	15	4	7	61	316
<b>Total</b>		9,931	4,590	3,021	1,097	323	13,945	32,907

<sup>1</sup>Figures for West Nile virus and Hepatitis B (Acute) include confirmed and probable cases.

<sup>2</sup> Streptococcal Group B Invasive disease is only reportable for cases in infants under 90 days.

# Maricopa County 2009 Communicable Disease Statistics

**Table 3.01b Case Rates per 100,000 Residents for Selected Reportable Diseases by Race/Ethnicity**

Disease		Race/Ethnicity						Total
		White	Hispanic	African American	American Indian	Asian	Unknown	
<b>Vaccine Preventable</b>	<i>H. influenzae</i>	1.3	0.4	1.1	4.6	0	-	1.2
	Measles	0	0	0	0	0	-	0
	Mumps	0.1	0	0	0	0	-	0.1
	Pertussis	1.2	2.4	2.8	0	0	-	1.6
<b>Central Nervous System</b>	Encephalitis Viral Other	0	0.1	0	0	0	-	0.0
	Meningitis Viral/Aseptic	10.2	9.7	20.6	18.3	4.0	-	10.8
	Meningococcal Meningitis	0.2	0.1	0	0	0.8	-	0.1
<b>Enterics</b>	Amebiasis	0	0	0	0	0	-	0
	Botulism	0.0	0	0	0	0	-	0.1
	Campylobacteriosis	5.9	9.0	4.5	22.8	5.6	-	12.9
	Cholera	0	0	0	0	0	-	0
	Cryptosporidiosis	0.6	0.2	1.1	1.5	0	-	0.6
	<i>E. Coli</i> O157.H7	0.6	0.5	0.6	1.5	0.8	-	1.1
	Giardiasis	1.1	1.8	2.8	15.2	0.8	-	2.8
	Listeriosis	0.2	0.1	0	0	0	-	0.1
	Norovirus	0.0	0.0	0	0	0	-	1.0
	Salmonella Paratyphi	0.0	0.2	0	0.0	0	-	0.1
	Salmonellosis	11.1	7.3	10.0	25.9	0.8	-	13.8
	Shigellosis	6.6	15.2	17.8	27.4	0.0	-	13.0
	Typhoid Fever	0	0	0	0	0.8	-	0.0
	Coccidioidomycosis	58.3	21.6	80.9	67.0	40.5	-	200.8
<b>Zoonoses/ Vectorborne</b>	Brucellosis	0	0.1	0	0	0	-	0.0
	Dengue	0	0	0	0	0.8	-	0.1
	Hantavirus Pulmonary Syndrome	0	0	0	0	0	-	0
	Lyme Disease	0.0	0	0	0	0	-	0.0
	Malaria	0.0	0	2.8	0	1.6	-	0.2
	West Nile Virus	0.7	0.1	0	1.5	0	-	0.5
<b>Hepatitides</b>	Hepatitis A	0.6	0.6	0.6	0	1.6	-	0.7
	Hepatitis B (Acute)	0.8	1.0	0	3.0	1.6	-	3.6
	Hepatitis D	0	0	0	0	0	-	0
<b>Other</b>	Legionellosis	1.3	0.2	0.6	0	0.8	-	0.9
	MRSA	2.4	1.6	3.9	22.8	0.8	-	20.0
	RSV	7.2	15.6	6.1	92.9	3.2	-	47.9
	Strep Group A	1.4	0.9	1.1	6.1	0	-	2.1
	Strep Group B <sup>1</sup> Invasive	0.3	0.3	0.6	1.2	0	-	0.5
	Strep Pneumo Invasive	10.0	6.6	13.4	21.3	3.2	-	11.8
	Toxic Shock Syndrome	0	0	0	0	0	-	0.0
	Vibrio Infection	0.3	0	0	0	0	-	0.2
	Yersiniosis	0.2	0	0	0	0	-	0.1
	Hansen's Disease	0	0	0	0	0	-	0
<b>Tuberculosis</b>		0.8	4.6	8.4	6.1	32.6	-	3.4
<b>Sexually Transmitted Disease</b>	Genital Herpes	9.2	12.8	19.0	162.9	4.0	-	17.2
	Gonorrhea	32.6	19.2	377.0	124.8	10.3	-	56.3
	Syphilis-Primary and Secondary	4.1	3.7	7.8	4.6	0.8	-	4.0
	Syphilis-All Others	7.2	17.6	39.0	41.1	5.6	-	12.3
	Chlamydia	238.9	193.7	1,017.7	1,085.5	125.5	-	364.3
	HIV	6.9	8.8	21.2	10.7	4.8	-	8.4
	AIDS	8.0	6.6	29.6	22.8	3.2	-	8.6
<b>All Others</b>		6.2	6.7	8.4	6.1	5.6	-	7.9
<b>Total</b>		429.3	358.4	1684.6	1670.2	256.6	-	817.9

<sup>1</sup>Rates for Streptococcal Group B Invasive in infants <90 days are per 1,000 live births by race of the mother.

**Maricopa County 2009 Communicable Disease Statistics**  
**Table 3.02a Number of Cases of Selected Reportable Diseases by Age Group**

Disease		Age Group													Total
		<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-84	85+	Unk.	
<b>Vaccine Preventable</b>	<i>H. influenzae</i>	10	2	1	1	0	0	4	4	4	11	10	3	0	50
	Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mumps	0	0	1	0	0	0	0	2	0	1	0	0	0	4
	Pertussis	28	12	4	5	5	2	3	3	2	0	1	0	0	65
<b>Central Nervous System</b>	Enceph Viral Other	0	0	0	0	0	0	0	0	0	1	0	0	0	1
	Meningitis Viral/Aseptic	40	9	19	18	30	43	86	59	49	32	41	3	6	435
	Meningococcal Meningitis	2	0	0	0	2	0	0	0	0	1	1	0	0	6
<b>Enterics</b>	Amebiasis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Botulism	3	0	0	0	0	0	0	0	0	0	0	0	0	3
	Campylobacteriosis	14	77	39	24	23	32	66	58	61	45	59	4	16	518
	Cholera	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cryptosporidiosis	2	1	0	1	2	0	4	2	3	3	6	0	0	24
	<i>E. Coli</i> O157.H7	3	7	5	3	5	2	6	1	1	4	4	0	5	46
	Giardiasis	1	39	17	7	5	4	14	10	7	4	4	0	1	113
	Listeriosis	0	0	0	0	0	0	0	0	2	2	1	0	0	5
	Norovirus	0	2	7	3	0	2	1	1	2	3	10	7	2	40
	Salmonella Paratyphi	0	2	0	0	0	1	0	0	0	0	0	0	0	3
	Salmonellosis	53	83	58	22	35	35	69	44	52	37	55	12	1	556
	Shigellosis	9	197	133	31	16	23	48	16	23	17	6	0	2	521
	Typhoid	0	0	0	1	0	0	0	1	0	0	0	0	0	2
<b>Mycosis</b>	Coccidioidomycosis	6	22	98	191	400	436	1,099	1,483	1,465	1,222	1,433	187	36	8,078
<b>Zoonoses/ Vectorborne</b>	Brucellosis	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	Dengue	0	0	0	0	0	0	2	0	0	1	1	0	0	4
	Hantavirus Pulm. Syn.	0	0	0	0	0	0	0	0	0	0	0		0	0
	Lyme Disease	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	Malaria	0	1	0	0	1	2	1	1	2	0	1	0	0	9
	West Nile Virus <sup>1</sup>	0	0	0	0	0	1	2	1	4	5	5	1	0	19
<b>Hepatitides</b>	Hepatitis A	0	1	1	0	2	6	3	6	5	4	1	0	1	30
	Hepatitis B <sup>1</sup> (Acute)	0	0	0	2	0	5	33	36	37	23	9	0	0	145
	Hepatitis D	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Other</b>	Legionellosis	0	1	0	0	0	0	0	2	6	3	23	2	0	37
	MRSA	5	7	2	1	7	14	35	80	139	173	261	64	18	806
	RSV	1,046	539	33	13	4	5	5	4	13	6	26	6	228	1,928
	Strep Group A	3	2	3	2	1	4	8	4	6	16	25	9	2	85
	Strep Group B <sup>2</sup> Invasive	27	0	0	0	0	0	0	0	0	0	0	0	0	27
	Strep Pneumo Invasive	19	47	18	10	6	7	24	42	75	81	103	37	5	474
	Toxic Shock Syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Vibrio spp.	0	0	0	0	1	1	1	2	2	1	1	0	0	9
	Yersiniosis	0	0	0	1	0	0	0	0	1	2	2	0	0	6
	Hansen's Disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Tuberculosis</b>		0	11	1	0	7	8	33	17	15	16	28	2	0	138
<b>Sexually Transmitted Diseases</b>	Genital Herpes	5	0	0	0	79	130	208	128	94	35	14	0	0	693
	Gonorrhea	0	0	0	20	497	736	645	223	115	20	8	0	0	2,264
	Syphilis-Primary and Secondary	0	0	0	0	1	20	47	45	35	11	1	0	0	160
	Syphilis – All Others	12	0	0	0	6	68	143	105	105	45	10	2	0	496
	Chlamydia	8	1	3	123	4,595	5,188	3,665	801	211	44	19	0	0	14,658
	HIV	0	0	0	0	11	46	118	90	52	19	1	0	0	337
	AIDS	0	0	0	0	1	13	82	112	105	24	9	0	0	346
<b>All Others</b>		17	40	81	63	16	2	9	4	13	10	46	13	2	316
<b>Total</b>		1,310	11,03	524	542	5,694	6,729	6,295	3,289	2,633	1,895	2,215	352	326	32,907

<sup>1</sup> Figures for West Nile Virus and Hepatitis B (Acute) include confirmed and probable cases.

<sup>2</sup> Streptococcal Group B Invasive disease is only reportable for cases in infants under 90 days.



# Maricopa County 2009 Communicable Disease Statistics

**Table 3.02b Case Rates per 100,000 Residents for Selected Reportable Diseases by Age Group**

Disease		Age Group												Total
		0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-84	85+	Unk.	
Vaccine Preventable	<i>H. influenzae</i>	3.6	0.3	0.4	0	0	0.6	0.7	0.8	2.9	2.6	4.6	-	1.2
	Measles	0	0	0	0	0	0	0	0	0	0	0	-	0
	Mumps	0	0.3	0	0	0	0	0.3	0	0.3	0	0	-	0.1
	Pertussis	12.0	1.3	1.8	1.9	1	0.5	0.5	0	0.0	0.3	0	-	1.6
Central Nervous System	Enceph Viral Other	0	0	0	0	0	0	0	0	0.3	0	0	-	0.0
	Meningitis Viral/Aseptic	14.7	6.0	6.4	11.2	16.3	13.5	10.3	9.5	8.3	10.7	4.6	-	10.8
	Meningococcal Meningitis	0.6	0	0	0.7	0	0	0	0	0.3	0.3	0	-	0.1
Enterics	Amebiasis	0	0	0	0	0	0	0	0	0	0	0	-	0
	Botulism	1	0	0	0	0	0	0	0.0	0	0	0	-	0.1
	Campylobacteriosis	27.3	12.4	8.5	8.6	12.1	10.4	10.1	11.8	11.7	15.4	6.1	-	12.9
	Cholera	0	0	0	0	0	0	0	0	0	0	0	-	0
	Cryptosporidiosis	0.9	0	0.4	0.7	0	0.6	0.3	0.6	0.8	1.6	0	-	0.6
	<i>E. Coli</i> O157.H7	3.0	1.6	1.1	1.9	0.8	0.9	0.2	0.2	1.0	1.0	0	-	1.1
	Giardiasis	12.0	5.4	2.5	1.9	1.5	2.2	1.7	1.4	1.0	1.0	0	-	2.8
	Listeriosis	0	0	0	0	0	0	0	0.4	0.5	0.3	0	-	0.1
	Norovirus	0.6	2.2	1.1	0	0.8	0.2	0.2	0.4	0.8	2.6	10.6	-	1.0
	Salmonella Paratyphi	0.6	0	0	0	0.4	0	0	0	0	0	0	-	0.1
	Salmonellosis	40.9	18.4	7.8	13.1	13.3	10.8	7.7	10.0	9.6	14.3	18.2	-	13.8
	Shigellosis	61.9	42.2	11.0	6.0	8.7	7.5	2.8	4.4	4.4	1.6	0.0	-	13.0
	Typhoid	0	0	0.4	0	0	0	0.2	0	0	0	0	-	0.0
Mycosis	Coccidioidomycosis	8.4	31.1	67.7	149.6	165.4	172.5	259.4	282.7	316.7	373.7	284.1	-	200.8
Zoonoses/ Vectorborne	Brucellosis	0	0	0	0	0	0	0.2	0	0	0	0	-	0.0
	Dengue	0	0	0	0	0	0.3	0	0	0.3	0.3	0	-	0.1
	Hantavirus Pulm. Syn.	0	0	0	0	0	0	0	0	0	0		-	0
	Lyme Disease	0	0	0	0	0	0.2	0	0	0	0	0	-	0.0
	Malaria	0.3	0	0	0.4	0.8	0.2	0.2	0.4	0	0.3	0	-	0.2
	West Nile Virus	0	0	0	0	0.4	0.3	0.2	0.8	1.3	1.3	1.5	-	0.5
Hepatitides	Hepatitis A	0.3	0.3	0	0.7	2.3	0.5	1.0	1.0	1.0	0.3	0	-	0.7
	Hepatitis B (Acute)	0	0	0.7	0	1.9	5.2	6.3	7.1	6.0	2.3	0	-	3.6
	Hepatitis D	0	0	0	0	0	0	0	0	0	0	0	-	0
Other	Legionellosis	0	0	0	0	0	0	0.3	1.2	0.8	6.0	3.0	-	0.9
	MRSA	3.6	0.6	0.4	2.6	5.3	5.5	14.0	26.8	44.8	68.1	97.2	-	20.0
	RSV	476.1	10.5	4.6	1.5	1.9	0.8	0.7	2.5	1.6	6.8	9.1	-	47.9
	Strep Group A	1.5	1.0	0.7	0.4	1.5	1.3	0.7	1.2	4.1	6.5	13.7	-	2.1
	Strep Group B <sup>1</sup> Invasive	0.5	0	0	0	0	0	0	0	0	0	0	-	0.5
	Strep Pneumo Invasive	19.8	5.7	3.5	2.2	2.7	3.8	7.3	14.5	21.0	26.9	56.2	-	11.8
	Toxic Shock Syndrome	0	0	0	0	0	0	0	0	0	0	0	-	0
	Vibrio spp.	0	0	0	0.4	0.4	0.2	0.3	0.4	0.3	0.3	0	-	0.2
	Yersiniosis	0	0	0	0	0.0	0	0	0.2	0.5	0.5	0.0	-	0.1
	Hansen's Disease	0	0	0	0	0	0	0	0	0	0	0	-	0
Tuberculosis		3.3	0.3	0	2.6	3.0	5.2	3.0	2.9	4.1	7.3	3.0	-	3.4
Sexually Transmitted Diseases	Genital Herpes	1.5	0	0	29.5	49.3	32.6	22.4	18.1	9.1	3.7	0	-	17.2
	Gonorrhea	0	0	7.1	185.9	279.1	101.2	39.0	22.2	5.2	2.1	0	-	56.3
	Syphilis – Primary and Secondary	0	0	0	0.4	7.6	7.4	7.9	6.8	2.9	0.3	0	-	4.0
	Syphilis – All Others	3.6	0	0	2.2	25.8	22.4	18.4	20.3	11.7	2.6	3.0	-	12.3
	Chlamydia	2.7	1.0	43.6	1,718.8	1,967.7	575.2	140.1	40.7	11.4	5.0	0	-	364.3
	HIV	0	0	0	4.1	17.4	18.5	15.7	10.0	4.9	0.3	0	-	8.4
	AIDS	0	0	0	0.4	4.9	12.9	19.6	20.3	6.2	2.3	0	-	8.6
All Others		9.1	25.7	22.3	6.0	0.8	1.4	0.7	2.5	2.6	12.0	19.8	-	7.9
Total		724.9	166.3	192.2	2,129.8	2,552.2	988.0	575.4	508.0	491.1	577.6	534.9	-	817.9

<sup>1</sup> Rates for Streptococcal Group B Invasive in infants <90 days are per 1,000 live births.

**Maricopa County 2009 Communicable Disease Statistics**

**Table 3.03a Number of Cases of Selected Reportable Diseases by Sex**

Disease		Sex			Total
		Male	Female	Unk.	
<b>Vaccine Preventable</b>	<i>H. influenzae</i>	23	27	0	50
	Measles	0	0	0	0
	Mumps	3	1	0	4
	Pertussis	35	30	0	65
<b>Central Nervous System</b>	Enceph Viral Other	0	1	0	1
	Meningitis Viral/Aseptic	217	214	4	435
	Meningococcal	2	4	0	6
<b>Enterics</b>	Amebiasis	0	0	0	0
	Botulism	1	2	0	3
	Campylobacteriosis	256	261	1	518
	Cholera	0	0	0	0
	Cryptosporidiosis	14	10	0	24
	<i>E. Coli</i> O157.H7	24	21	1	46
	Giardiasis	62	51	0	113
	Listeriosis	2	3	0	5
	Norovirus	12	28	0	40
	Salmonella Paratyphi	2	1	0	3
	Salmonellosis	262	293	1	556
	Shigellosis	245	274	2	521
	Typhoid	2	0	0	2
<b>Mycosis</b>	Coccidioidomycosis	3,551	4,458	69	8,078
<b>Zoonoses/ Vectorborne</b>	Brucellosis	0	1	0	1
	Dengue	2	2	0	4
	Hantavirus Pulm. Syn.	0	0	0	0
	Lyme Disease	1	0	0	1
	Malaria	6	3	0	9
	West Nile Virus <sup>1</sup>	8	11	0	19
<b>Hepatitides</b>	Hepatitis A	14	16	0	30
	Hepatitis B <sup>1</sup> (Acute)	103	42	0	145
<b>Other</b>	Legionellosis	18	18	1	37
	MRSA	461	316	29	806
	RSV	870	701	357	1,928
	Strep Group A	44	41	0	85
	Strep Group B Invasive	14	13	0	27
	Strep Pneumo Invasive	243	223	8	474
	Toxic Shock Syndrome	0	0	0	0
	Vibrio spp.	7	2	0	9
	Yersiniosis	2	4	0	6
	Hansen's Disease	0	0	0	0
<b>Tuberculosis</b>		85	53	0	138
<b>Sexually Transmitted Diseases</b>	Genital Herpes	236	457	0	693
	Gonorrhea	1,270	994	0	2,264
	Syphilis – Primary and Secondary	151	9	0	160
	Syphilis – All Others	362	134	0	496
	Chlamydia	3,987	10,671	0	14,658
	HIV	293	44	0	337
	AIDS	301	45	0	346
<b>All Others</b>		147	166	3	316
<b>Total</b>		13,154	19,277	476	32,907

<sup>1</sup> Figures for West Nile Virus and Hepatitis B (Acute) include confirmed and probable cases.

**Maricopa County 2009 Communicable Disease Statistics**

**Table 3.03b Case Rates per 100,000 Residents for Selected Reportable Diseases by Sex**

Disease		Sex			Total
		Male	Female	Unk.	
<b>Vaccine Preventable</b>	<i>H. influenzae</i>	1.1	1.4	-	1.2
	Measles	0	0	-	0
	Mumps	0.1	0.1	-	0.1
	Pertussis	1.7	1.5	-	1.6
<b>Central Nervous System</b>	Enceph Viral Other	0	0.1	-	0.0
	Meningitis Viral/Aseptic	10.7	10.7	-	10.8
	Meningococcal Meningitis	0.1	0.2	-	0.1
<b>Enterics</b>	Amebiasis	0	0	-	0.0
	Botulism	0.0	0.1	-	0.1
	Campylobacteriosis	12.6	13.1	-	12.9
	Cholera	0	0	-	0
	Cryptosporidiosis	0.7	0.5	-	0.6
	<i>E. Coli</i> O157.H7	1.2	1.1	-	1.1
	Giardiasis	3.1	2.6	-	2.8
	Listeriosis	0.1	0.2	-	0.1
	Norovirus	0.6	1.4	-	1.0
	Salmonella Paratyphi	0.1	0.1	-	0.1
	Salmonellosis	12.9	14.7	-	13.8
	Shigellosis	12.1	13.8	-	13.0
	Typhoid	0.1	0	-	0.0
<b>Mycosis</b>	Coccidioidomycosis	174.9	223.7	-	200.8
<b>Zoonoses/ Vectorborne</b>	Brucellosis	0.0	0.1	-	0.0
	Dengue	0.1	0.1	-	0.1
	Hantavirus Pulm. Syn.	0	0	-	0
	Lyme Disease	0.0	0	-	0.0
	Malaria	0.3	0.2	-	0.2
	West Nile Virus	0.4	0.6	-	0.5
<b>Hepatitides</b>	Hepatitis A	0.7	0.8	-	0.7
	Hepatitis B (Acute)	5.1	2.1	-	3.6
<b>Other</b>	Legionellosis	0.9	0.9	-	0.9
	MRSA	22.7	15.9	-	20.0
	RSV	42.8	35.2	-	47.9
	Strep Group A	2.2	2.1	-	2.1
	Strep Group B <sup>1</sup> Invasive	0.5	0.5	-	0.5
	Strep Pneumo Invasive	12.0	11.2	-	11.8
	Toxic Shock Syndrome	0.0	0.0	-	0.0
	Vibrio spp.	0.3	0.1	-	0.2
	Yersiniosis	0.1	0.2	-	0.1
	Hansen's Disease	0	0	-	0
<b>Tuberculosis</b>		4.2	2.7	-	3.4
<b>Sexually Transmitted Diseases</b>	Genital Herpes	11.6	22.9	-	17.2
	Gonorrhea	62.5	49.9	-	56.3
	Syphilis – Primary and Secondary	7.4	0.5	-	4.0
	Syphilis – All Others	17.8	6.7	-	12.3
	Chlamydia	196.4	535.5	-	364.3
	HIV	14.4	2.2	-	8.4
	AIDS	14.8	2.3	-	8.6
<b>All Others</b>		7.2	8.3	-	7.9
<b>Total</b>		647.8	967.4	-	817.9

<sup>1</sup> Rates for Streptococcal Group B Invasive in infants <90 days are per 1,000 live births.

**Maricopa County 2009 Communicable Disease Statistics**

**Table 3.04 Case Rate Comparisons to Arizona, U.S. and Healthy People 2010  
Goals for Selected Diseases**

Disease	2009 Maricopa County		Crude Case Rate (Cases per 100,000 Residents)		
	Number of cases	Crude Case Rate (Cases per 100,000 Residents)	Arizona 2009	U.S. 2009	Healthy People 2010 Goal
Salmonellosis	556	13.8	16.4	16.2	6.8
AIDS	346	8.6	-	-	1.0
HIV	337	8.4	6.8	-	-
Tuberculosis	138	3.4	2.9	3.8	1.0
Hepatitis B (Acute Cases Only)	145	3.6	2.9	1.1	-
Hepatitis A	30	0.7	1.0	0.7	4.5
Syphilis (Primary and Secondary)	160	4.0	3.5	4.6	0.2 <sup>1</sup>
Pertussis	65	1.6	1.2	5.5	0.7
Rubella	0	0	0.0	0	0
Mumps	4	0.1	0.2	0.7	0
Measles	0	0	0.0	0.02	0

<sup>1</sup> The Healthy People 2010 goal for primary and secondary syphilis includes only transmission of syphilis that occurred in the United States. It is likely that Maricopa County includes some cases acquired outside of the country.

#### ***IV. Maricopa County 2009 Natality (Birth) Statistics***

## Maricopa County 2009 Natality (Birth) Statistics

**Table 4.01 Number and Percent of Births by Age & Race/Ethnicity of Mother**

Age Group of Mother	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<15	11	0.0	53	0.2	6	0.2	3	0.2	1	0.0	0	0	74	0.1
15-19	1,418	5.7	3,980	15.6	426	13.3	284	16.4	58	2.5	6	3.0	6,172	10.7
20-24	5,037	20.4	7,115	28.0	987	30.8	594	34.3	230	9.8	42	20.8	14,005	24.3
25-29	7,698	31.1	6,741	26.5	846	26.4	434	25.1	712	30.3	40	19.8	16,471	28.6
30-34	6,633	26.8	4,771	18.7	562	17.5	274	15.8	823	35.0	37	18.3	13,100	22.7
35-39	3,190	12.9	2,296	9.0	312	9.7	125	7.2	427	18.2	43	21.3	6,393	11.1
40-44	676	2.7	467	1.8	56	1.7	16	0.9	91	3.9	25	12.4	1,331	2.3
45+	58	0.2	26	0.1	8	0.2	1	0.1	7	0.3	8	4.0	108	0.2
Unknown	0	0	0	0	0	0	0	0	0	0	1	0.5	1	0.0
Total	24,721		25,449		3,203		1,731		2,349		202		57,655	

**Table 4.02 Number and Percent of Births by Marital Status & Race/Ethnicity of Mother**

Marital Status of Mother	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Married	17,480	70.7	10,376	40.8	1,103	34.4	399	23.1	1,990	84.7	149	73.8	31,497	54.6
Single	6,997	28.3	14,748	58.0	2,074	64.8	1,314	75.9	351	14.9	51	25.2	25,535	44.3
Refused	152	0.6	237	0.9	21	0.7	14	0.8	6	0.3	1	0.5	431	0.7
Divorced	22	0.1	14	0.1	3	0.1	1	0.1	1	0.0	0	0	41	0.1
Unknown	70	0.3	74	0.3	2	0.1	3	0.2	1	0.0	1	0.5	151	0.3
Total	24,721		25,449		3,203		1,731		2,349		202		57,655	

**Table 4.03 Number and Percent of Births by Educational Level & Race/Ethnicity of Mother**

Education Level of Mother	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
< 6th Grade	47	0.2	633	2.5	56	1.7	2	0.1	36	1.5	6	3.0	780	1.4
6-11th Grade	1,806	7.3	10,648	41.8	555	17.3	493	28.5	125	5.3	23	11.4	13,650	23.7
HS Diploma	5,933	24.0	8,194	32.2	1,175	36.7	552	31.9	402	17.1	24	11.9	16,280	28.2
College+	16,858	68.2	5,892	23.2	1,392	43.5	675	39.0	1,773	75.5	47	23.3	26,637	46.2
Unknown	77	0.3	82	0.3	25	0.8	9	0.5	13	0.6	102	50.5	308	0.5
Total	24,721		25,449		3,203		1,731		2,349		202		57,655	

## Maricopa County 2009 Natality (Birth) Statistics

**Table 4.04 Number and Percent of Births by Method of Payment & Race/Ethnicity of Mother**

Method of Payment	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
AHCCCS	7,453	30.1	19,228	75.6	2,111	65.9	1,117	64.5	588	25.0	116	57.4	30,613	53.1
Indian Health Service	15	0.1	17	0.1	4	0.1	184	10.6	0	0	1	0.5	221	0.4
Private Insurance	16,318	66.0	5,569	21.9	1,026	32.0	402	23.2	1,697	72.2	72	35.6	25,084	43.5
Self	712	2.9	536	2.1	45	1.4	18	1.0	52	2.2	9	4.5	1,372	2.4
Unknown	223	0.9	99	0.4	17	0.5	10	0.6	12	0.5	4	2.0	365	0.6
Total	24,721		25,449		3,203		1,731		2,349		202		57,655	

**Table 4.05 Trimester of First Prenatal Care & Race/Ethnicity of Mother**

Trimester of First Prenatal Care	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
First	22,698	91.8	19,901	78.2	2,636	82.3	1,201	69.4	2,117	90.1	136	67.3	48,689	84.4
Second	1,539	6.2	4,177	16.4	416	13.0	377	21.8	161	6.9	28	13.9	6,698	11.6
Third	278	1.1	759	3.0	90	2.8	109	6.3	42	1.8	18	8.9	1,296	2.2
None	162	0.7	560	2.2	53	1.7	44	2.5	27	1.1	18	8.9	864	1.5
Unknown	44	0.2	52	0.2	8	0.2	0	0	2	0.1	2	1.0	108	0.2
Total	24,721		25,449		3,203		1,731		2,349		202		57,655	

**Table 4.06 Number and Percent of Prenatal Care Visits & Race/Ethnicity of Mother**

Number of Prenatal Care Visits	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
None	162	0.7	560	2.2	53	1.7	44	2.5	27	1.1	18	8.9	864	1.5
1 to 4	277	1.1	909	3.6	125	3.9	124	7.2	45	1.9	13	6.4	1,493	2.6
5 to 8	2,191	8.9	4,517	17.7	493	15.4	454	26.2	243	10.3	35	17.3	7,933	13.8
9 to 12	12,715	51.4	11,983	47.1	1,555	48.5	822	47.5	1,229	52.3	92	45.5	28,396	49.3
13 to 16	7,261	29.4	6,615	26.0	787	24.6	228	13.2	637	27.1	31	15.3	15,559	27.0
17 or More	2,064	8.3	811	3.2	182	5.7	58	3.4	164	7.0	11	5.4	3,290	5.7
Unknown	51	0.2	54	0.2	8	0.2	1	0.1	4	0.2	2	1.0	120	0.2
Total	24,721		25,449		3,203		1,731		2,349		202		57,655	

## Maricopa County 2009 Natality (Birth) Statistics

**Table 4.07 Adequacy of Prenatal Care & Race /Ethnicity of Mother  
Singleton Births Only (Excludes Twins and Other Multiple Births)**

Adequacy of Prenatal Care	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Inadequate	1,236	5.2	3,709	14.9	400	13.1	410	24.1	170	7.5	52	27.4	5,977	10.7
Intermediate	2,774	11.7	3,982	16.0	454	14.9	352	20.7	264	11.6	28	14.7	7,854	14.0
Adequate	11,857	49.8	10,154	40.8	1,223	40.1	641	37.7	1,136	49.9	80	42.1	25,091	44.9
Adequate Plus	7,892	33.1	7,013	28.1	966	31.7	296	17.4	702	30.8	28	14.7	16,897	30.2
Information Missing	51	0.2	59	0.2	7	0.2	2	0.1	4	0.2	2	1.1	125	0.2
Total	23,810		24,917		3,050		1,701		2,276		190		55,944	

**Table 4.08 Birthweight of Infant & Race/Ethnicity of Mother**

Birthweight of Infant	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1500 Grams	268	1.1	267	1.0	100	3.1	14	0.8	41	1.7	0	0	690	1.2
1500-2499 Grams	1,446	5.8	1,400	5.5	320	10.0	81	4.7	166	7.1	15	7.4	3,428	5.9
2500-4249 Grams	22,208	89.8	23,103	90.8	2,739	85.5	1,536	88.7	2,100	89.4	178	88.1	51,864	90.0
>4249 Grams	798	3.2	679	2.7	42	1.3	100	5.8	41	1.7	8	4.0	1,668	2.9
Unknown	1	0.0	0	0	2	0.1	0	0	1	0.0	1	0.5	5	0.0
Total	24,721		25,449		3,203		1,731		2,349		202		57,655	

**Table 4.09 Preterm Births (Less than 37 Weeks Gestation) & Race/ Ethnicity of Mother**

Gestational Estimate	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Less than 34 Weeks	571	2.3	611	2.4	160	5.0	40	2.3	69	2.9	2	1.0	1,453	2.5
Late Preterm (34-36 Weeks)	1,931	7.8	1,974	7.8	336	10.5	136	7.9	181	7.7	19	9.4	4,577	7.9
37 Weeks or More	22,219	89.9	22,864	89.8	2,707	84.5	1,555	89.8	2,099	89.4	180	89.1	51,624	89.5
Unknown	0	0	0	0	0	0	0	0	0	0	1	0.5	1	0.0
Total	24,721		25,449		3,203		1,731		2,349		202		57,655	



## Maricopa County 2009 Natality (Birth) Statistics

**Table 4.10 Number and Percent of Births by Medical Risk Factor & Race/Ethnicity of Mother**

Medical Risk Factor	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
No Medical Risk Present	16,411	66.4	18,236	71.7	1,978	61.8	810	46.8	1,632	69.5	135	66.8	39,202	68.0
Medical Risk Present	8,310	33.6	7,213	28.3	1,225	38.2	921	53.2	717	30.5	67	33.2	18,453	32.0
Total	24,721		25,449		3,203		1,731		2,349		202		57,655	

**Table 4.11 Number and Percent of Births by Type of Delivery & Race/Ethnicity of Mother**

Type of Delivery	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Vaginal	17,071	69.1	19,010	74.7	2,209	69.0	1,267	73.2	1,560	66.4	149	73.8	41,266	71.6
Primary C-Section	4,403	17.8	3,111	12.2	555	17.3	229	13.2	491	20.9	33	16.3	8,822	15.3
Repeat C-Section	3,247	13.1	3,328	13.1	439	13.7	235	13.6	298	12.7	20	9.9	7,567	13.1
Total	24,721		25,449		3,203		1,731		2,349		202		57,655	

**Table 4.12 Number and Percent of Births by Birth Attendee & Race/ Ethnicity of Mother**

Birth Attendee	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Medical Doctor	20,926	84.6	21,970	86.3	2,731	85.3	1,145	66.1	2,016	85.8	163	80.7	48,951	84.9
Doctor of Osteopathy	3,043	12.3	2,522	9.9	377	11.8	122	7.0	291	12.4	32	15.8	6,387	11.1
Certified Nurse Midwife	373	1.5	841	3.3	84	2.6	459	26.5	32	1.4	5	2.5	1,794	3.1
Midwife	337	1.4	66	0.3	10	0.3	5	0.3	8	0.3	1	0.5	427	0.7
Other	42	0.2	50	0.2	1	0.0	0	0	2	0.1	1	0.5	96	0.2
Total	24,721		25,449		3,203		1,731		2,349		202		57,655	

## Maricopa County 2009 Natality (Birth) Statistics

**Table 4.13 Number and Percent of Births by Marital Status & Age Group of Mother**

Marital Status of Mother	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Married	0	0	670	10.9	5,001	35.7	10,221	62.1	9,679	73.9	4,866	76.1	966	72.6	93	86.1	1	100.0	31,497	54.6
Single	74	100.0	5,482	88.8	8,877	63.4	6,039	36.7	3,276	25.0	1,431	22.4	342	25.7	14	13.0	0	0	25,535	44.3
Refused	0	0	18	0.3	91	0.6	140	0.8	92	0.7	68	1.1	21	1.6	1	0.9	0	0	431	0.7
Divorced	0	0	1	0.0	7	0.0	15	0.1	11	0.1	7	0.1	0	0	0	0	0	0	41	0.1
Unknown	0	0	1	0.0	29	0.2	56	0.3	42	0.3	21	0.3	2	0.2	0	0	0	0	151	0.3
Total	74		6,172		14,005		16,471		13,100		6,393		1,331		108		1		57,655	

**Table 4.14 Number and Percent of Births by Educational Level & Age Group of Mother**

Educational Level of Mother	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
< 6th Grade	0	0	34	0.6	135	1.0	235	1.4	210	1.6	126	2.0	38	2.9	2	1.9	0	0	780	1.4
6-11th Grade	74	100.0	3,462	56.1	3,555	25.4	3,136	19.0	2,152	16.4	1,068	16.7	193	14.5	10	9.3	0	0	13,650	23.7
HS Diploma	0	0	2,229	36.1	5,879	42.0	4,331	26.3	2,476	18.9	1,120	17.5	233	17.5	12	11.1	0	0	16,280	28.2
College+	0	0	425	6.9	4,392	31.4	8,704	52.8	8,195	62.6	4,014	62.8	834	62.7	73	67.6	0	0	26,637	46.2
Unknown	0	0	22	0.4	44	0.3	65	0.4	67	0.5	65	1.0	33	2.5	11	10.2	1	100.0	308	0.5
Total	74		6,172		14,005		16,471		13,100		6,393		1,331		108		1		57,655	

**Table 4.15 Number and Percent of Births by Method of Payment & Age Group of Mother**

Method of Payment	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
AHCCCS	61	82.4	5,318	86.2	9,883	70.6	7,837	47.6	4,745	36.2	2,256	35.3	487	36.6	25	23.1	1	100.0	30,613	53.1
Indian Health Service	0	0	33	0.5	73	0.5	64	0.4	35	0.3	15	0.2	1	0.1	0	0	0	0	221	0.4
Private Insurance	11	14.9	678	11.0	3,704	26.4	8,068	49.0	7,858	60.0	3,899	61.0	789	59.3	77	71.3	0	0	25,084	43.5
Self	2	2.7	110	1.8	242	1.7	389	2.4	394	3.0	187	2.9	42	3.2	6	5.6	0	0	1,372	2.4
Unknown	0	0	33	0.5	103	0.7	113	0.7	68	0.5	36	0.6	12	0.9	0	0	0	0	365	0.6
Total	74		6,172		14,005		16,471		13,100		6,393		1,331		108		1		57,655	

## Maricopa County 2009 Natality (Birth) Statistics

**Table 4.16 Trimester of First Prenatal Care & Age Group of Mother**

Trimester of First Prenatal Care	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
First	43	58.1	4,500	72.9	11,308	80.7	14,271	86.6	11,679	89.2	5,647	88.3	1,146	86.1	94	87.0	1	100.0	48,689	84.4
Second	20	27.0	1,257	20.4	2,041	14.6	1,641	10.0	1,048	8.0	549	8.6	132	9.9	10	9.3	0	0	6,698	11.6
Third	10	13.5	241	3.9	372	2.7	309	1.9	229	1.7	95	1.5	39	2.9	1	0.9	0	0	1,296	2.2
None	1	1.4	158	2.6	252	1.8	218	1.3	130	1.0	89	1.4	13	1.0	3	2.8	0	0	864	1.5
Unknown	0	0	16	0.3	32	0.2	32	0.2	14	0.1	13	0.2	1	0.1	0	0	0	0	108	0.2
Total	74		6,172		14,005		16,471		13,100		6,393		1,331		108		1		57,655	

**Table 4.17 Number and Percent of Prenatal Care Visits & Age Group of Mother**

Number of Prenatal Care Visits	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
None	1	1.4	158	2.6	252	1.8	218	1.3	130	1.0	89	1.4	13	1.0	3	2.8	0	0	864	1.5
1 to 4	9	12.2	269	4.4	468	3.3	351	2.1	239	1.8	120	1.9	36	2.7	1	0.9	0	0	1,493	2.6
5 to 8	21	28.4	1,285	20.8	2,303	16.4	2,072	12.6	1,387	10.6	709	11.1	144	10.8	12	11.1	0	0	7,933	13.8
9 to 12	27	36.5	2,992	48.5	6,938	49.5	8,219	49.9	6,521	49.8	3,021	47.3	639	48.0	39	36.1	0	0	28,396	49.3
13 to 16	13	17.6	1,254	20.3	3,399	24.3	4,652	28.2	3,934	30.0	1,904	29.8	367	27.6	35	32.4	1	100.0	15,559	27.0
17 or More	3	4.1	198	3.2	606	4.3	925	5.6	872	6.7	537	8.4	131	9.8	18	16.7	0	0	3,290	5.7
Unknown	0	0	16	0.3	39	0.3	34	0.2	17	0.1	13	0.2	1	0.1	0	0	0	0	120	0.2
Total	74		6,172		14,005		16,471		13,100		6,393		1,331		108		1		57,655	

# Maricopa County 2009 Natality (Birth) Statistics

**Table 4.18 Adequacy of Prenatal Care & Age Group of Mother  
Singleton Births Only(Excludes Twins and Other Multiple Births)**

Adequacy of Prenatal Care	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
Inadequate	27	36.5	1,129	18.5	1,823	13.3	1,492	9.3	923	7.3	458	7.6	114	9.0	11	13.8	0	0	5,977	10.7
Intermediate	11	14.9	1,034	17.0	2,131	15.5	2,212	13.8	1,573	12.5	733	12.1	152	12.0	8	10.0	0	0	7,854	14.0
Adequate	21	28.4	2,429	39.9	5,979	43.6	7,426	46.2	5,944	47.3	2,721	44.9	544	43.0	26	32.5	1	100.0	25,091	44.9
Adequate Plus	15	20.3	1,479	24.3	3,745	27.3	4,919	30.6	4,109	32.7	2,140	35.3	455	35.9	35	43.8	0	0	16,897	30.2
Information Missing	0	0	16	0.3	43	0.3	32	0.2	20	0.2	13	0.2	1	0.1	0	0	0	0	125	0.2
Total	74		6,087		13,721		16,081		12,569		6,065		1,266		80		1		55,944	

**Table 4.19 Birthweight of Infant & Age Group of Mother**

Birthweight of Infant	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1500 Grams	0	0	86	1.4	169	1.2	164	1.0	164	1.3	88	1.4	13	1.0	6	5.6	0	0	690	1.2
1500-2499 Grams	3	4.1	425	6.9	795	5.7	855	5.2	784	6.0	451	7.1	96	7.2	19	17.6	0	0	3,428	5.9
2500-4249 Grams	69	93.2	5,581	90.4	12,720	90.8	14,983	91.0	11,663	89.0	5,592	87.5	1,172	88.1	83	76.9	1	100.0	51,864	90.0
>4249 Grams	2	2.7	80	1.3	320	2.3	467	2.8	489	3.7	260	4.1	50	3.8	0	0	0	0	1,668	2.9
Unknown	0	0	0	0	1	0.0	2	0.0	0	0	2	0.0	0	0	0	0	0	0	5	0.0
Total	74		6,172		14,005		16,471		13,100		6,393		1,331		108		1		57,655	

**Table 4.20 Preterm Births (Less Than 37 Weeks Gestation) & Age Group of Mother**

Gestational Estimate	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unk.			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
Less than 34 Weeks	0	0	179	2.9	348	2.5	346	2.1	336	2.6	200	3.1	36	2.7	8	7.4	0	0	1,453	2.5
Late Preterm (34-36 Weeks)	4	5.4	463	7.5	1,062	7.6	1,211	7.4	1,079	8.2	598	9.4	139	10.4	21	19.4	0	0	4,577	7.9
37 Weeks or More	70	94.6	5,530	89.6	12,595	89.9	14,914	90.5	11,685	89.2	5,594	87.5	1,156	86.9	79	73.1	1	100.0	51,624	89.5
Unknown	0	0	0	0	0	0	0	0	0	0	1	0.0	0	0	0	0	0	0	1	0.0
Total	74		6,172		14,005		16,471		13,100		6,393		1,331		108		1		57,655	

## Maricopa County 2009 Natality (Birth) Statistics

**Table 4.21 Number and Percent of Births by Medical Risk Factor & Age Group of Mother**

Medical Risk Factor	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
No Medical Risk Present	41	55.4	3,835	62.1	9,766	69.7	11,572	70.3	9,151	69.9	4,064	63.6	717	53.9	55	50.9	1	100.0	39,202	68.0
Medical Risk Present	33	44.6	2,337	37.9	4,239	30.3	4,899	29.7	3,949	30.1	2,329	36.4	614	46.1	53	49.1	0	0	18,453	32.0
Total	74		6,172		14,005		16,471		13,100		6,393		1,331		108		1		57,655	

**Table 4.22 Number and Percent of Births by Birth Attendee & Age Group of Mother**

Birth Attendee	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
Medical Doctor	57	77.0	5,088	82.4	11,739	83.8	13,994	85.0	11,260	86.0	5,537	86.6	1,176	88.4	99	91.7	1	100.0	48,951	84.9
Doctor of Osteopathy	12	16.2	747	12.1	1,633	11.7	1,807	11.0	1,414	10.8	655	10.2	115	8.6	4	3.7	0	0	6,387	11.1
Certified Nurse Midwife	5	6.8	318	5.2	544	3.9	496	3.0	274	2.1	133	2.1	21	1.6	3	2.8	0	0	1,794	3.1
Midwife	0	0	15	0.2	71	0.5	148	0.9	125	1.0	51	0.8	15	1.1	2	1.9	0	0	427	0.7
Other	0	0	4	0.1	18	0.1	26	0.2	27	0.2	17	0.3	4	0.3	0	0	0	0	96	0.2
Total	74		6,172		14,005		16,471		13,100		6,393		1,331		108		1		57,655	

**Table 4.23 Number and Percent of Births by Type of Delivery & Age Group of Mother**

Type of Delivery	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Vaginal	64	86.5	5,088	82.4	10,631	75.9	11,924	72.4	8,828	67.4	3,929	61.5	760	57.1	41	38.0	1	100.0	41,266	71.6
Primary C-Section	10	13.5	902	14.6	2,052	14.7	2,412	14.6	2,005	15.3	1,123	17.6	283	21.3	35	32.4	0	0	8,822	15.3
Repeat C-Section	0	0	182	2.9	1,322	9.4	2,135	13.0	2,267	17.3	1,341	21.0	288	21.6	32	29.6	0	0	7,567	13.1
Total	74		6,172		14,005		16,471		13,100		6,393		1,331		108		1		57,655	

# **Maricopa County 2009 Natality (Birth) Statistics**

**Table 4.22 Comparisons to Arizona, U.S. and Healthy People 2010 Goals for Selected Natality Measures**

		Maricopa County 2009		Arizona 2009	U.S. 2009 <sup>1</sup>	Healthy People 2010 Goal
		Number of Individuals	Rate or Percent			
Unlinked Infant Mortality – Rate per 1,000 live births	Neo-natal	222	3.9	3.9	4.2	2.9
	Post-natal	107	1.9	2.0	2.2	1.2
	Total	329	5.7	5.9	6.4	4.5
Low birthweight births (< 2500g) – Percent of live births		4,118	7.1%	7.1%	8.2%	5.0%
Births to teen mothers – Percent of live births	10-14 Years Old	74	0.13%	0.14%	0.12%	-
	15-17 Years Old	2,044	3.6%	3.8%	3.0%	-
	15-19 Years Old	6,172	10.7%	11.7%	9.9%	-
	Total 10-19 Years Old	6,246	10.8%	11.8%	10.0%	-
Maternal Mortality – Rate per 100,000 live births		4	6.9	7.6	12.7 <sup>2</sup>	3.3

1. All figures are preliminary 2009 U.S. data.
2. Maternal mortality rate is Final 2007 U.S. data.

## V. Technical Notes

### Population Statistics

Population statistics are shown in Tables **1.01** and **1.02**. This report used the most recent U.S. Census data and estimates for population figures at the time of analysis.

- The Maricopa County population is from the U.S. Census Bureau, County Population Estimates by Age, Sex, Race and Hispanic Origin for July 1, 2009, released June 10, 2010. This is at <http://www.census.gov/popest/counties/asrh/files/cc-est2009-alldata-04.csv>

The population estimates used in this report are from the U.S. Census and based on the Census 2000 population. The population for a community, such as Maricopa County, changes as a result of births, deaths, and migration (moving into or out of the location). Although it is relatively easy to measure the change in population due to births and deaths, it is more difficult to measure the change due to migration. Population estimates may underestimate or overestimate the true population. Population estimates have the potential to become less reliable as more time passes from the last census count because the actual number of people living in a given area changes each year. Many of the rates shown in this report use population estimates as the denominator (e.g., 50 cases of disease for every 100,000 people) as these are the best population estimates available. Therefore, the true burden of disease within Maricopa County may be understated (if the population estimate is actually larger than the true population) or overstated (if the population estimate is actually smaller than the true population)

This report defines “Hispanic” as all respondents listing Hispanic as origin, either alone or in combination with any race. The table below shows how the U.S. Census variables of “origin” and “race” are used for categorization in this report.

<b>Table 5.1 Race/Ethnicity Categories Used in This Report</b>		
<b>Category Used in This Report</b>	<b>U.S. Census Code “Race”</b>	<b>U.S. Census Code “Origin”</b>
White	Race=1 (White Alone)	Origin=1 (Non-Hispanic)
African American	Race=2 (Black Alone)	Origin=1 (Non-Hispanic)
American Indian, Non-Hispanic	Race=3 (American Indian or Alaska Native Alone)	Origin=1 (Non-Hispanic)
Asian	Race=4 (Asian Alone) or 5 (Native Hawaiian or Other Pacific Islander Alone)	Origin=1 (Non-Hispanic)
Other	Race=6 (Two or More Races)	Origin=1 (Non-Hispanic)
Hispanic	Race=1,2,3,4,5,6	Origin=2 (Hispanic)

In 2008, the U.S. Census used a new methodology to estimate the race and Hispanic origin of the population. Using birth certificate data from the National Center for Health Statistics, the race and Hispanic origin for both the mother and father of the baby were converted to the 1997 Office of Management and Budget (OMB) race categories. From the conversion, the race and Hispanic origin of the child was then calculated. Due to this new methodology, an actual increase in the population for Hispanic origin can be observed, specifically in the under 10 years of age population. For further information please see:

<http://www.census.gov/popest/topics/methodology/2008-est-relnotes.pdf>.

## ***Mortality (Death) Statistics***

Mortality (death) statistics are shown in Tables **2.01a** through **2.14**. Any crude death rate can be calculated by taking the number of deaths from any mortality table in this report and dividing it by the appropriate age, gender, race/ethnicity, or total population denominator found in Tables **1.01** and **1.02**. In tables where rates are shown, “0” means there were no cases/deaths in that category. However, when the number “0.0” is shown, it means that there were fewer than .05 deaths per 100,000 residents. Only one condition, Sudden Infant Death Syndrome (SIDS) is calculated differently. By definition, SIDS deaths only occur in infants; as a result, these numbers are divided by the number of live births (rather than the standard 100,000 residents), to produce a rate per 1,000 live births.

All data on mortality statistics are from death certificates included in the Arizona Department of Health Services (ADHS) final annual files. The data presented in this report include Maricopa County residents only. This includes Maricopa County residents who died in Maricopa County and residents who died elsewhere. Non-Maricopa County residents who died in Maricopa County are not included.

During the course of routine data review, several deaths were identified as being in one county even though their city and ZIP codes indicated that they lived in a different county. For these discrepant cases, final classification in this report was based on the address of the resident. (The address is determined by reviewing the street address, city, county, and ZIP code). Therefore, the numbers presented in this report may not precisely match those presented by ADHS in other reports. In addition, one death was updated with an accurate cause of death.

For both mortality and morbidity (communicable disease), rates for some racial/ethnic populations such as American Indians, Asians, and African Americans may be high compared to other groups. Because these groups have relatively small populations in Maricopa County (under 150,000 residents as shown in Tables **1.01** and **1.02**), these high rates may represent very few deaths/cases. Among small populations, rates are less stable so one case or death can cause a big increase or decrease in the rates from year to year. Therefore, it is advisable to examine the raw number of cases or deaths, in addition to the rates.

Tables **2.01b**, **2.02b**, **2.03b**, **2.04b**, **2.06b**, and **2.07b** do not provide a rate for the categories labeled “Unknown Age” or “Unknown Race/Ethnicity.” This is because there is no denominator to use for calculating the rate as the U.S. Census does not report any data on “unknown age” or “unknown race/ethnicity.”

In Tables **2.03a** through **2.05b**, unintentional injury deaths can be found by adding two categories – “motor vehicle collisions” and “all other accidents and adverse effects.” The total for unintentional injuries in this report is higher than the figure reported by ADHS because deaths from “complications of medical and surgical care” are included in most tables in this report. This convention follows the national model for classifying unintentional injuries. “Complications of medical and surgical care” include deaths from medical devices, adverse effects related to correct doses of therapeutic medications, and misadventures to patients during surgical or medical care (ICD-10 Y40-Y84, Y88). The only exceptions to this method are in Tables **2.13** and **2.14**, where unintentional injury deaths do not include complications of medical/surgical care to make them comparable to the Healthy People 2010 goals.

Unless otherwise noted, all deaths are attributed to one underlying condition, based on death certificate information, using the rules of the International Classification of Diseases, 10<sup>th</sup> Revision (ICD-10). Causes of death are classified by ICD-10 codes. The codes used for each category are listed in Table **5.2** below.



**Table 5.2 ICD-10 Codes Used for This Report**

<b>Cause</b>	<b>ICD-10 Codes Used</b>
Tuberculosis	A16-A19
Syphilis	A50-A53
HIV Disease	B20-B24
Malignant Neoplasms (Cancer)	C00-C97
Malignant Neoplasm of the Stomach	C16
Malignant Neoplasm of the Colon	C18-C21
Malignant Neoplasm of the Pancreas	C25
Malignant Neoplasm of Bronchus, Lung, or Trachea	C33-C34
Malignant Neoplasm of the Breast	C50
Malignant Neoplasm of the Uterus, Cervix, Ovary	C53-C56
Malignant Neoplasm of the Prostate	C61
Malignant Neoplasm of Urinary Organs	C64-C68
Non-Hodgkins Lymphoma	C82-C85
Leukemia	C91-C95
Other Malignant Neoplasms	C00-C15, C17, C22-C24, C26-C32, C37-C49, C51-C52, C57-C60, C62-C63, C69-C81, C88, C90, C96-97
Diabetes	E10-E14
Alzheimer's	G30
Major Cardiovascular Disease	I00-I78
Disease of Heart	I00-I09, I11, I13, I20-I51
Hypertensive Heart Disease	I11, I13
Ischemic Heart Disease	I20-I25
Other Heart Disease	I00-I09, I26-I51
Coronary Heart Disease	I11, I20-I25
Primary Hypertension	I10, I12
Cerebrovascular Diseases	I60-I69
Atherosclerosis	I70
Other Circulatory	I71-I78
Influenza & Pneumonia	J09-J18
Chronic Lower Respiratory	J40-J47
Asthma	J45-J46
Peptic Ulcer	K25-K28
Liver Disease, including chronic liver disease, cirrhosis, alcoholic liver disease, and other chronic liver disease	K70, K73-K74
Nephritis, nephritic syndrome and nephrosis	N00-N07, N17-N19, N25-N27
Pregnancy, childbirth, and the puerperium	O00-O99
Perinatal Conditions	P00-P96
Congenital Malformations	Q00-Q99
SIDS (Sudden Infant Death Syndrome)	R95
Ill Defined Disease Conditions (Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified, excluding SIDS)	R00-R94, R96-R99

(Table Continues)

(Table 5.2, Continued)

All Other Diseases	A00-A09, A20-A49, A54-B19, B25-B99, D00-E07, E15-G25, G31-H93, I80-J06, J20-J39, J60-K22, K29-K66, K71-K72, K75-M99, N10-N15N20-N23, N28-N98
Motor Vehicle Collisions	V02-V04, V09.0, V09.2, V12-V14, V19.0 - V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0 V89.2
All Other Accidents & Adverse Effects	V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9 V90-X29, X31-X59, Y40-Y86, Y88
Falls	W00-W19
Excessive Exposure to Natural Heat	X30
Accidental Poisoning	X40-X49
Accidental Drowning (Excludes drowning involving water transportation)	W65-W74
Suicide	U03, X60-X84, Y87.0
Homicide	U01-U02, X85-Y09, Y87.1
All Other External Causes	Y10-Y36, Y87.2, Y89
Unknown Causes	No ICD code listed
Firearm Related	W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0
Drug Induced or Related	F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0-F16.5, F16.7-F16.8, F17.0, F17.3-F17.5, F17.7-F17.9, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, F19.7-F19.9, X40-X44, X60-X64, X85, Y10-Y14
Alcohol Induced or Related	F10, G31.2, G62.1, I42.6, K29.2, K70, R78.0, X45, X65, Y15

Only the underlying cause of death is used for classification in this report. Although other causes may have contributed to death, the underlying cause of death is the cause that began the disease process that resulted in death. The underlying causes of death shown in this report are based on the 113 selected causes of death reported by NCHS in their annual report. A few additional causes of death, like coccidioidomycosis, have been selected due to their importance in Arizona.

Tables **2.06a** through **2.08b** show deaths resulting directly (induced) and indirectly (related) from firearms, drugs, and alcohol. Drugs include prescription medications and illegal substances, regardless of whether use was recreational or medicinal. Tobacco is considered a drug by the National Center for Health Statistics (NCHS). Since tobacco is not often considered to be a drug in the colloquial sense, drug-related deaths are listed both with and without tobacco-related deaths.

“Induced” deaths refer to cases in which the use of a firearm, drug, or alcohol contributed directly to the cause of death, i.e., death due to an overdose of drugs, or a fatal gunshot injury. “Related” deaths refer to cases in which the use of a drug or alcohol was listed on the death certificate, but the substance was not necessarily involved in the final cause of death, i.e., death due to dehydration resulting from environmental exposure, with chronic drug use noted elsewhere on the certificate. Related causes of deaths are counted using multiple causes of death (MCD) data supplied by ADHS with the final annual mortality files.

Firearm, drug, and alcohol induced deaths overlap with a number of other categories, such as suicide, homicide, unintentional injury, etc. For example, a firearm induced death may also be classified as a suicide, homicide, or “other accident or adverse effect.” An alcohol induced death may be attributed to a long or short term effect of alcohol, such as acute alcohol intoxication or alcoholic cardiomyopathy.

This report only reports heat deaths where heat is the underlying COD. In other reports produced by Maricopa County regarding heat deaths, the number of deaths may be greater. In the other reports the following criteria is used in classifying heat deaths. Heat caused deaths are death where heat directly caused the decedent to die. The death certificate has heat mentioned in the Part I of the death certificate. Part I is a progression of disease that leads to the immediate cause of death. Heat related deaths are deaths where the heat played a part by exacerbating pre-existing conditions, resulting in death. The death certificate has heat mentioned in the Part II of the death certificate. Part II is other significant conditions contributing to death but not resulting in the underlying cause given in Part I. In this report, the criterion used for classifying a death as heat is the underlying cause of death code. These deaths may have been classified as heat caused or heat related in the other reports.

Tables **2.13** and **2.14** show age-adjusted rates for Maricopa County. Age-adjusting removes the effect of a disproportionately large young or old population on crude death rates by computing an “adjusted” death rate. An age adjusted rate allows comparisons between different groups, even if one group has more older members than another. A high (unadjusted) death rate for residents of a certain town may be high *only* because that town has more senior citizens, who are more likely to die than younger residents. Age-adjusted rates allow comparisons between towns, ethnic groups, etc. by adjusting for how many older and younger members there are in the group. For example, the population pyramids at the beginning of this report show a greater percentage of White Non-Hispanics over the age 65 than Hispanics. This creates a much lower crude death rate for Hispanics compared to White Non-Hispanics. Age adjustment shows that White non-Hispanics still have a higher death rate, but the difference is not as extreme. Maricopa County rates are age-adjusted to the 2000 standard population using the direct method described in *Health, United States, 2002* published by the National Center for Health Statistics at [www.cdc.gov/nchs/data/hus/hus02.pdf](http://www.cdc.gov/nchs/data/hus/hus02.pdf), p.414. Arizona, Healthy People goals, and U.S. rates included in this report are published as age-adjusted to the 2000 standard population by the agencies generating the rates.

For Table **2.14**, the mortality rate for breast cancer is calculated among women only (using only female residents in the denominator). The few male residents with breast cancer are not included in the numerator of the rate for breast cancer. For Tables **2.03b**, **2.04b**, **2.05b**, and **2.14**, prostate cancer rates are calculated among men only (using only male residents in the denominator), and uterine cancer, ovarian cancer, and pregnancy death rates are calculated among women only. In all other tables, and for all other diseases, the total population is used for the denominator for these conditions.

Comparison death rates for Arizona, shown in Table **2.14**, can be found in *Arizona Health Status and Vital Statistics 2009*, published by the ADHS at [http://www.azdhs.gov/plan/report/ahs/ahs2009/chptr2a\\_2d.pdf](http://www.azdhs.gov/plan/report/ahs/ahs2009/chptr2a_2d.pdf). Figures for the U.S. are preliminary 2009 data. The data were published in National Vital Statistics Reports, Vol 59, no4, March 16, 2011. These data can be found at: [http://www.cdc.gov/nchs/data/nvsr/nvsr59/nvsr59\\_04.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr59/nvsr59_04.pdf). Healthy People 2010 Goals are set by the Department of Health and Human Services and may be found at [www.healthypeople.gov/Document/tableofcontents.htm](http://www.healthypeople.gov/Document/tableofcontents.htm).

## ***Communicable Disease (Morbidity) Statistics***

Communicable disease statistics are shown in Tables **3.01a** through **3.04**. Any morbidity rate except for Streptococcal Group B Invasive disease can be calculated by taking the number of cases from any communicable disease table in this report and dividing it by the appropriate age, gender, race/ethnicity, or total population denominator found in Tables **1.01** and **1.02**. Because Streptococcal Group B Invasive disease is only reportable in infants under 90 days, these numbers are divided by the number of live births, to produce a rate per 1,000 live births.

The data presented in this report include communicable diseases to residents of Maricopa County. This includes Maricopa County residents who acquired a disease in Maricopa County and residents who acquired a disease elsewhere. Non-Maricopa County residents are not included, even if they acquired a disease in Maricopa County. For Hansen's disease only, tables include residents from various counties in Arizona, regardless of where the disease was acquired. Other reports may show different morbidity rates because they include non-residents who acquired disease in Maricopa County or they exclude residents who were exposed outside of the county. For example, MCDPH Health Status Reports show nine residents with malaria in 2009. All of these cases acquired malaria outside of Maricopa County.

All data on communicable diseases are new cases of reportable diseases from the ADHS final annual files. There are several exceptions: data on hepatitis C, genital herpes, gonorrhea, Chlamydia, syphilis, and Hansen's disease are from MCDPH data files.

Data on tuberculosis, STDs, HIV, and AIDS may differ from other reports published by MCDPH and ADHS. Data on these diseases are in databases that may have been updated during the time between reports. The data for this report were acquired on the following dates.

- Tuberculosis data were acquired on August 2, 2010.
- STD data were acquired on July 29, 2010.
- Syphilis data were acquired on July 29, 2010.
- HIV/AIDS data for Maricopa County residents were acquired on August 17, 2010.
- HIV/AIDS data for Arizona residents were acquired on October 1, 2010

Communicable disease data include only confirmed cases, with the exception of West Nile virus, hepatitis B (acute), and Hansen's disease. West Nile virus and hepatitis B data include confirmed and probable cases. Data for Hansen's disease includes confirmed, probable, and suspect cases diagnosed in Maricopa County (including diagnoses of non-county residents).

All communicable disease statistics in this report are new cases for each specified year (incidence). The exception is Hansen's disease for which the prevalence (all existing cases from all years) is shown. The figures presented for Hansen's disease may differ from previous years due to the addition of cases diagnosed in previous years but only recently available.

Data can be classified by date of onset, date of diagnosis or date of report to the health department. All diseases/conditions listed in this report are classified by the date of report to the health department. The only exceptions are HIV, AIDS, and Hansen's disease which are classified by the date of diagnosis.

During the course of routine data review, one case was identified to have an incorrect age and sex. A case of Streptococcal Group B Invasive disease was identified to be older than 90 days, and was not included in this report (confirmed cases of Streptococcal Group B Invasive disease only occur in infants under 90 days). Therefore, the numbers presented in this report may not precisely match those presented by ADHS in other reports.

The category "Encephalitis Viral" includes St. Louis encephalitis and all other types of viral encephalitis except for West Nile virus. This may differ somewhat from other reports that include only certain types of encephalitides.

In previous Health Status Reports, hepatitis B data were also obtained from the MCDPH. This report uses hepatitis B data for confirmed and probable acute cases from ADHS. Comparison of hepatitis B cases in 2008 and 2009 to previous years will show a decrease in the total number of cases. This decrease is most likely due to changes in the investigation of the disease and not due to a change in the communicability of the disease in Maricopa County.

In 2009, a major laboratory changed reporting practices for coccidioidomycosis. Due to these changes, a large increase in the total number of cases has been observed. This increase in cases does not mean there is an increase of disease in Maricopa County. Rather, this means that more cases are being reported to public health.

A sharp decrease in the number of reported cases of genital herpes occurred in 2009. A review of the cases indicated a large decrease in the number of laboratory reported cases. Although no explanation for this decrease has been identified, it is not believed to be due to an actual decrease in the incidence of disease.

In Tables **3.01a** through **3.03b**, the category labeled "All Others" includes all reportable diseases in the ADHS communicable disease database that are not listed previously on the table.

In April 2008, respiratory syncytial virus (RSV) and norovirus were added to the reportable disease lists. With a full year of reports, these diseases have now been added to the list of communicable diseases in this report.

In 2009, an influenza epidemic struck Maricopa County and the world, making it the first influenza pandemic in nearly 40 years. Although thousands of cases of disease were reported, among Maricopa County residents, cases are not published in this report. Information regarding influenza is available in the weekly influenza report for Maricopa County found on the Maricopa County Department of Public Health website at <http://www.maricopa.gov/PublicHealth/Services/EPI/Reports/influenza.aspx>.

In Table **3.04**, comparison morbidity rates for Arizona can be found in *Arizona Health Status and Vital Statistics* 2009, [http://www.azdhs.gov/plan/report/ahs/ahs2009/chptr3a\\_3c.pdf](http://www.azdhs.gov/plan/report/ahs/ahs2009/chptr3a_3c.pdf). The rates for HIV and AIDS for Arizona were provided directly from ADHS on October 1, 2010. All U.S. rates are for 2009 and may be found in *Morbidity and Mortality Weekly Report Vol 58 no. 53 May 13, 2011* at <http://www.cdc.gov/mmwr/PDF/wk/mm5853.pdf>. Healthy People 2010 Goals are set by the Department of Health and Human Services and may be found at [www.healthypeople.gov/Document/tableofcontents.htm](http://www.healthypeople.gov/Document/tableofcontents.htm).

### ***Nativity (Birth) Statistics***

Nativity (birth) statistics are shown in Tables **4.01** through **4.24**. The natality percentages for some groups such older and younger maternal age groups (under 15 and over 45) or certain racial/ethnic groups may be high compared to other groups. These groups have relatively small numbers of births in Maricopa County (as shown in Table **4.01**). Although percentages may be high, they may represent only one or two cases in a given category. Therefore, it is advisable to check the raw numbers in addition to the rates.

All data on birth statistics are from birth certificates included in the ADHS final annual files. The data presented in this report include births to mothers whose county of residence is Maricopa County. This may include births that did not occur in Maricopa County. Also included are some births that occurred outside of Arizona to mothers who reside in Arizona but whose county and city of residence is unknown. National Center for Health Statistics rules state that if a birth does not occur in the state of residency and the county and city are unknown, the city of residency is assigned to the largest city in the state of residency. For Arizona, the largest city is Phoenix. For further explanation, please see <http://www.cdc.gov/nchs/data/dvs/3amanual.pdf>.

During the course of routine data review, several births were identified as being in one county even though their city and ZIP codes indicated that they lived in a different county. For these discrepant cases, final classification in this report was based on the address of the resident. (The address is determined by reviewing the street address, city, county, and ZIP code). Therefore, the numbers presented in this report may not precisely match those presented by ADHS in other reports.

Infant mortality statistics shown in Table 4.24 are from unlinked data or the number of infant deaths in a given year. The table shows comparisons to Arizona and the U.S. U.S. data are preliminary for 2009, from the National Center for Health Statistics. Maternal mortality data for the U.S. can be found in *Deaths: Final Data for 2007* National Vital Statistics Reports Vol 58, no 19, May 20, 2010 at [http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58\\_19.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58_19.pdf). U.S. Data for infant mortality, low birthweight births and births to teen mothers can be found in *Births: Preliminary Data for 2009*, National Vital Statistics Reports, Vol 59, no 3, December 21, 2010 at [http://www.cdc.gov/nchs/data/nvsr/nvsr59/nvsr59\\_03.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr59/nvsr59_03.pdf). Arizona figures for 2009 can be found in *Arizona Health Status and Vital Statistics 2009*, published by the ADHS at [http://www.azdhs.gov/plan/report/ahs/ahs2009/chptr1a\\_1d.pdf](http://www.azdhs.gov/plan/report/ahs/ahs2009/chptr1a_1d.pdf). An explanation of unlinked infant mortality data is presented below.

Adequate prenatal care is based on the Adequacy of Prenatal Care Utilization Index (APCUI)<sup>1</sup>. This index considers both the timing of prenatal care initiation and the number of visits after care was initiated, comparing the number of actual visits to the number of visits recommended by the American College of Obstetricians and Gynecologists. This index does not describe the quality of the care or adjust for maternal risk factors. Only singleton (the birth of one baby rather than twins, triplets, or other multiple births) births are shown in these tables because twins and higher order births are typically higher risk pregnancies, and the index is not appropriate for summarizing their prenatal care usage.

- a) Inadequate: Prenatal care began after the fourth month of pregnancy or less than 50% of the expected prenatal care visits were attended
- b) Intermediate: Prenatal care began before the fourth month and 50 to 70% of the expected visits were attended
- c) Adequate: Prenatal care began prior to the fourth month and 80-109% of expected visits were attended
- d) Adequate plus: Prenatal care began prior to the fourth month of pregnancy and 110% or more of the expected visits were attended

The following definitions related to reproductive health have been established by National Center for Health Statistics<sup>2</sup>:

- Birth or Live Birth<sup>3</sup> – The complete expulsion or extraction from the mother of a product of human conception, irrespective of the duration of pregnancy or birthweight which, after such expulsion or extraction, breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached.
- Fertility Rate – Number of live births during a calendar year per 1,000 women age 15 to 44.
- Births to Teenage Mothers – Live births occurring to females under age twenty.
- Birth Weight – The weight of a neonate determined immediately after delivery or as soon thereafter as possible.

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<sup>1</sup> Kotelchuck, M. An Evaluation of the Kessner Adequacy of Prenatal Care Index and a Proposed Adequacy of Prenatal Care Utilization Index, *American Journal of Public Health*, 1994; 84(9):1414-1420.

<sup>2</sup> NCHS guidelines were adopted from those established by the World Health Organization (WHO).

<sup>3</sup> The Arizona statute defining a live birth follows this definition.

- Low Birthweight – Any neonate weighing less than 2,500 grams at birth (less than 5 pounds 8 ounces).
- Very Low Birthweight – Any neonate weighing less than 1,500 grams at births (less than 3 pounds, 4 ounces).
- Preterm – Any neonate whose birth occurs through the end of the last day of the 37<sup>th</sup> week (259<sup>th</sup> day), following onset of the last menstrual period.
- Infant Death – Any death at any time from birth up to, but not including, the first year of age (<365 days).
- Infant Mortality Rate – Number of infant deaths per 1,000 live births.
- Maternal Mortality Rate – Number of deaths to the mother per 100,000 births.
- Neonatal Mortality Rate – Number of deaths to infants at or under 28 days of age, per 1,000 live births.
- Postnatal (Postneonatal) Mortality Rate – Number of deaths to infants between 29 days and 365 days after birth, per 1,000 live births.
- Unlinked Infant Mortality – The number of infant deaths in a given calendar year, as determined from mortality records.

### ***Healthy People 2010 Goals***

The Centers for Disease Control and Prevention provide national health goals for the year 2010 – Healthy People (HP) 2010 goals. Some of these goals are shown in Tables **2.14**, **3.04**, and **4.16**. A hyphen indicates that no goal has been set for that indicator or the goal is not comparable to Maricopa County data. “0” indicates that the goal is zero.

This report provides HP 2010 Goals only when the goals are comparable to Maricopa County data. A goal is considered comparable in this report if two conditions exist:

- First, the HP Goal must include the same conditions as are included in the Maricopa County data. For example, if the Maricopa County figure for heart disease includes all heart disease but the HP 2010 goal includes only coronary heart disease, the goal is not listed as a comparison to the heart disease rate.
- Second, the HP 2010 goals use ICD-9 codes while the Maricopa County data use ICD-10 codes. Therefore, they may or may not be comparable. For this reason, only select HP 2010 goals are presented here for comparison. A nationally tested “conversion ratio” between ICD-9 and ICD-10 codes for any given condition must fall between certain boundaries. The conversion ratio measures how closely the two classifications resemble each other. A conversion ratio of “1” means that the ICD-9 codes are equivalent to the ICD-10 codes for that category. If the conversion ratio is between 0.95 and 1.05, a direct comparison is made with no mention of any differences. If the ratio does not meet this requirement, but is between 0.80 and 1.20, the potential bias is mentioned in the report, along with specifying the direction of the bias. A ratio that exceeds the .80 to 1.20 range is not used for comparisons. The conversion ratios are from *Deaths: Final Data for 1999*, National Vital Statistics Reports, Volume 49:8, National Center for Health Statistics.

More information on the technical aspects of HP 2010 can be found at [www.healthypeople.gov/document/tableofcontents.htm#tracking](http://www.healthypeople.gov/document/tableofcontents.htm#tracking).

**More Information**

For more information on population and health statistics, please visit the following websites:

- Maricopa County Department of Public Health: [http://www.maricopa.gov/Public\\_Health/](http://www.maricopa.gov/Public_Health/)
- Arizona Department of Health Services: [www.hs.state.az.us](http://www.hs.state.az.us)
- Centers for Disease Control and Prevention, National Center for Health Statistics: [www.cdc.gov/nchs](http://www.cdc.gov/nchs)
- Department of Economic Security: <https://www.azdes.gov/aspnew/default.asp>